

GenCore version 5.1.9
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Om nucleic - nucleic search, using sw model

Run on: July 17, 2006, 20:07:43 ; Search time 2712 Seconds

(without alignments)
9431.773 Million cell updates/sec

Title: SEQ1-47502C

Perfect score: 399.6

Sequence: 1 ccagctactcgcacatgtgc.....tatcgagagaccacaaag 400

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 6366136 seqs, 31973710525 residues

Total number of hits satisfying chosen parameters: 12732272

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 150 summaries

Database :

GenEmbl: *
1: gb_env:*
2: gb_pat:*
3: gb_ph:*
4: gb_pl:*
5: gb_pr:*
6: gb_ro:*
7: gb_sts:*
8: gb_sy:*
9: gb_un:*
10: gb_vl:*
11: gb_ov:*
12: gb_hcg:*
13: gb_in:*
14: gb_cm:*
15: gb_da:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	398	99.6	187064	5	AC011476 Homo sapi
2	231	57.8	204340	12	AC019238 Homo sapi
3	161.2	40.3	184822	12	AC146499 Actus nan
4	160.6	40.2	232406	12	AC146898 Pongo pyg
5	160	40.0	97676	5	AC005497 Homo sapi
6	159.8	40.0	107866	5	AL445686 Human DNA
7	159.8	40.0	171480	5	AC015542 Homo sapi
8	159.4	39.9	97916	5	AC016542 Homo sapi
9	158.8	39.7	195616	12	AC090344 Homo sapi
10	158.8	39.7	197156	12	AC090345 Homo sapi
11	158.8	39.7	197856	12	AP000777 Homo sapi
12	158.6	39.7	68990	12	AC087662 Homo sapi
13	158.4	39.6	96593	2	DD164421 NOVEL.COM
14	158.4	39.6	96593	2	AX695641 Sequence
15	158.4	39.6	112659	5	AC010677 Homo sapi
16	158.2	39.6	155344	5	AC026407 Homo sapi
17	157.8	39.5	170154	5	AC040168 Homo sapi
18	157.8	39.5	186747	12	AC018605 Homo sapi

19	157.8	39.5	198575	5	AC007495 Homo sapi
20	157.8	39.5	224187	5	AL732374 Human DNA
21	157.6	39.4	169908	12	AC150910 Pan trogl
22	157.4	39.4	174097	5	AC069513 Homo sapi
23	157.4	39.4	209844	5	AC011495 Homo sapi
24	157.2	39.3	173556	12	AC074388 Homo sapi
25	157	39.3	173556	12	AL162739 Human DNA
26	156.8	39.2	158330	5	AC025599 Homo sapi
27	156.8	39.2	195070	12	AC068995 Homo sapi
28	156.6	39.2	111372	12	AL353145 Homo sapi
29	156.6	39.2	150934	12	AC022252 Homo sapi
30	156.6	39.2	163521	12	AC108040 Homo sapi
31	156.6	39.2	196773	5	AC114480 Homo sapi
32	156.4	39.1	102008	12	AC016552 Homo sapi
33	156.4	39.1	244525	5	AC008499 Homo sapi
34	156.4	39.0	88848	5	AC107377 Homo sapi
35	155.8	39.0	182725	12	AC172796 Homo sapi
36	155.8	39.0	216387	5	DJ534K4
37	155.6	38.9	224187	5	AL732374 Human DNA
38	155.4	38.9	122961	5	HSJ193N13
39	155.4	38.9	126462	5	AC004876 Homo sapi
40	155.4	38.9	132492	5	AC007616 Homo sapi
41	155.4	38.9	145679	12	AC027249 Homo sapi
42	155.4	38.9	183444	5	AP001024 Homo sapi
43	155.4	38.9	202138	12	AC018423 Homo sapi
44	155.4	38.9	204493	5	AC099489 Homo sapi
45	155.4	38.9	205463	5	AL353388 Human DNA
46	155.4	38.8	116130	5	AC026423 Homo sapi
47	155.2	38.8	177640	5	AC079456 Homo sapi
48	155.2	38.8	178079	12	AC068929 Homo sapi
49	155	38.8	68465	5	AL162384 Human DNA
50	155	38.8	72433	5	AC068889 Homo sapi
51	155	38.8	168684	12	AC023985 Homo sapi
52	155	38.8	17811	5	AC011739 Homo sapi
53	155	38.8	196216	5	AC099343 Homo sapi
54	154.8	38.7	98832	5	AL137127 Human DNA
55	154.8	38.7	152757	5	AC018475 Homo sapi
56	154.6	38.7	126525	5	AL158044 Human DNA
57	154.4	38.6	126525	5	HSJ107789 Homo sapi
58	154.4	38.6	169714	12	AC138876 Homo sapi
59	154.4	38.6	182892	5	AC034244 Homo sapi
60	154.4	38.6	182892	5	AC034244 Homo sapi
61	154.4	38.6	200518	12	AC151041 Homo sapi
62	154.2	38.6	638	7	BV472608 G591P6278
63	154.2	38.6	74996	5	AP001986 Homo sapi
64	154.2	38.6	122748	5	AL031846 Human DNA
65	154.2	38.6	161166	12	AC087673 Homo sapi
66	154	38.5	20425	12	BX284653_5
67	154	38.5	110000	12	BX284653_4
68	154	38.5	119389	5	AL450328 Human DNA
69	154	38.5	154612	5	AL365504 Human DNA
70	154	38.5	172095	12	AC026834 Homo sapi
71	154	38.5	176813	12	AC107895 Homo sapi
72	154	38.5	198821	5	AC120057 Homo sapi
73	154	38.5	206773	12	AC010932 Homo sapi
74	153.8	38.5	115246	12	AC161015 Homo sapi
75	153.8	38.5	121295	5	AL442071 Human DNA
76	153.8	38.5	154616	5	AC004846 Homo sapi
77	153.8	38.5	173333	12	AC025282 Homo sapi
78	153.8	38.5	175347	12	AC009099 Homo sapi
79	153.8	38.5	203046	12	AC006342 Homo sapi
80	153.8	38.5	206258	12	AC112775 Homo sapi
81	153.8	38.5	23418	12	AC109128 Homo sapi
82	153.6	38.4	139063	12	AC133553 Homo sapi
83	153.6	38.4	146208	5	AL354776 Human DNA
84	153.6	38.4	167101	5	AC002094 Homo sapi
85	153.6	38.4	174724	12	AC140096 Pan trogl
86	153.6	38.4	176181	5	AC008155 Homo sapi
87	153.6	38.4	184684	12	AC148258 Homo sapi
88	153.4	38.4	67396	5	AC008848 Homo sapi
89	153.4	38.4	141605	5	AL355353 Human DNA
90	153.4	38.4	161251	12	AC147284 Pan trogl
91	153.4	38.4	166697	12	AC021103 Homo sapi

10-723683

361 TCACATCGGCTTCCAGACTATTGACGAGACCAAAAAG 400
 |||||||
 DB 119818 TCACATCGGCTTCCAGACTATTGACGAGACCAAAAAG 119857

 RESULT 2
 AC019238
 LOCUS
 DEFINITION Homo sapiens chromosome 19 clone RP11-700B5, WORKING DRAFT
 AC019238 204340 bp DNA linear HTG 17-AUG-2000
 AC019238
 AC019238
 AC019238.5 GI:9838316
 HTG; HTGS PHASE1; HTGS_DRAFT.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 1 (bases 1 to 204340)
 Watserson,R.H.
 The sequence of Homo sapiens clone
 Unpublished
 2 (bases 1 to 204340)
 Watserson,R.H.
 Direct Submission
 Submitted (30-DEC-1999) Genome Sequencing Center, Washington
 University School of Medicine, 4444 Forest Park Parkway, St. Louis,
 MO 63108, USA
 On Aug 17, 2000 this sequence version replaced gi.9280808.

----- Genome Center -----
 Center: Washington University Genome Sequencing Center
 Center code: MUGSC
 Web site: http://genome.wustl.edu/gsc/index.shtml
 Project information -----
 Center project name: H.NH0700805
 Summary Statistics -----
 Sequencing vector: M13; 84k
 Sequencing vector: plasmid; 16k
 Chemistry: Dye-primer ET; 84% of reads
 Chemistry: Dye-terminator Big Dye; 16% of reads
 Assembly program: Phrap; version 0.990319
 Consensus quality: 19676 bases at least Q40
 Consensus quality: 200928 bases at least Q30
 Consensus quality: 201749 bases at least Q20
 Insert size: 236000; agarose-fp
 Insert size: 204523; sum-of-contigs
 Quality coverage: 6.54 in Q20 bases; agarose-fp
 Quality coverage: 7.57 in Q20 bases; sum-of-contigs

 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 12 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.
 *
 1 2752: contig of 2752 bp in length
 2753 2852: gap of unknown length
 2853 5901: contig of 3049 bp in length
 5902 6001: gap of unknown length
 6002 12965: contig of 6964 bp in length
 12966 13065: gap of unknown length
 13066 21018: contig of 7953 bp in length
 21019 21119: gap of unknown length
 21119 30399: contig of 9281 bp in length
 30400 30499: gap of unknown length
 30500 40958: contig of 10459 bp in length
 40959 52180: gap of unknown length
 52180 52280: contig of 11122 bp in length
 52280 52181: gap of unknown length

FEATURES
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 1. 204340
 /organism="Homo sapiens"
 /mol_type="genomic DNA"
 /db_xref="taxon:9606"
 /chromosome="19"
 /clone="RP11-700B5"
 1. 2752
 /note="assembly_name:Contig16"
 2753. 2852
 /estimated_length=unknown
 2853. 5901
 /note="assembly_name:Contig17"
 5902. 6001
 /estimated_length=unknown
 6002. 12965
 /note="assembly_name:Contig18"
 12966. 13065
 /estimated_length=unknown
 13066. 21018
 /note="assembly_name:Contig19"
 21019. 21118
 /estimated_length=unknown
 21119. 30399
 /note="assembly_name:Contig20"
 30400. 30499
 /estimated_length=unknown
 30500. 40958
 /note="assembly_name:Contig21"
 40959. 41058
 /estimated_length=unknown
 41059. 52180
 /note="assembly_name:Contig22"
 52181. 52280
 /estimated_length=unknown
 52281. 65275
 /note="assembly_name:Contig23"
 65276. 65375
 /estimated_length=unknown
 65376. 95161
 /note="assembly_name:Contig24"
 95162. 95261
 /estimated_length=unknown
 95262. 122538
 /note="assembly_name:Contig25"
 122539. 122638
 /estimated_length=unknown
 122639. 155778
 /note="assembly_name:Contig26"
 clone end:T7
 vector side:right"
 15579. 155878
 /estimated_length=unknown
 155879. 204340
 /note="assembly_name:Contig27"
 clone end:SP6
 vector side:left"

 ORIGIN
 Query Match 57.8%; Score 231; DB 12; Length 204340;
 Best Local Similarity 99.1%; Pred. No. 8.9e-69;
 Matches 231; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 168 AACCCGCTTTACTAAATAATACAAAATAATAGCTGGCAGTGTGACACACCTGTATGTC 227

Db	65376	AACCCGCTTTTACTTAATAAAAAATACAATAAAGTCGTGGCATGTGGTGACACACTGTAGTC	65435
Oy	228	CCAGCTACTCAGGAGGCCGAGATTTCAGATGAGCTGAAGATCGCAGATGAGCCGAAATCAC	287
Db	65436	CCAGCTACTCAGGAGGCCGAGATTTCAGATGAGCTGAAGATCGCAGATGAGCCGAAATCAC	65495
Oy	288	AGATCAAGAGTGCAGATGAGACACCCGCTCAAAAACAACAAACAAAAAACAAAAA	347
Db	65496	AGATCAAGAGTGCAGATGAGACACCCGCTCAAAAACAACAAACAAAAAACAAAAA	65555
Oy	348	CCATTAAGACATTGTCCATCTCGCGTTCCGAGCTATTGCAGAGACCAAAAAG	400
Db	65556	CCATTAAGACATTGTCCATCTCGCGTTCCGAGCTATTGCAGAGACCAAAAAG	65608
RESULT 3 LOCUS AC146499/c			
DEFINITION	Acotus nancymae clone CH258-450E24, WORKING DRAFT SEQUENCE, 2 ordered pieces.		
VERSION	AC146499.1 GI:34013545		
KEYWORDS	HTG; HTGS_PHASE2; HTGS_DRAFT		
SOURCE	Acotus nancymae (Ma's night monkey)		
ORGANISM	Acotus nancymae		
	Eumariota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Platyrrhini; Cebidae; Aotinae; Acotus. 1 (bases 1 to 184822) Cheng,J.-F., Hamilton,M., Peng,Y., Mukherjee,S., Hosseini,R., Peng,Z., Malinov,I. and Rubin,E.M. Direct Submission Unpublished 2 (bases 1 to 184822) Cheng,J.-F., Hamilton,M., Peng,Y., Mukherjee,S., Hosseini,R., Peng,Z., Malinov,I. and Rubin,E.M. Direct Submission Submitted (21-AUG-2003) Genome Sciences, Lawrence Berkeley National Laboratory, 1 Cyclotron Rd., Berkeley, CA 94720, USA 3 (bases 1 to 184822) Cheng,J.-F., Hamilton,M., Peng,Y., Mukherjee,S., Hosseini,R., Peng,Z., Malinov,I. and Rubin,E.M. Direct Submission Submitted (26-NOV-2003) Genome Sciences, Lawrence Berkeley National Laboratory, 1 Cyclotron Rd., Berkeley, CA 94720, USA		
TITLE	JOURNAL		
REFERENCE	AUTHORS		
TITLE	JOURNAL		
COMMENT			
	Sequence Produced by Berkeley PGA Web site: http://pga.lbl.gov Center Code: PGABERK Center Project Name: W033 Bac Clone Name: CH258-450E24		
	This sequence has been compared to sequences of other species using VISTA (http://www.gsfd.lbl.gov/VISTA). The results can be viewed at: http://pga.lbl.gov/cgi-bin/search_cwgsd?type=n&value=AP0A1		
	The order-orientation of the draft sequence was accomplished by using: Avid (http://baboon.math.berkeley.edu/mavid/), Lagan (http://lagan.stanford.edu/) and paired end information.		
	Funding agent: Programs for Genomic Applications (NHLBI)		
	Summary Statistics: Sequencing vector: plasmid, pUC18 Chemistry: Dye-terminator Big Dye Assembly program: Phrap version 0.990329. * NOTE: This is a "working draft" sequence. It currently * consists of 2 contigs. Gaps between the contigs * are represented as runs of N. The order of the pieces * is believed to be correct as given, however the sizes		

	* If the gaps between them are based on estimates that have
	* provided by the submittor.
	* This sequence will be replaced
*	* by the finished sequence as soon as it is available and
*	* the accession number will be preserved.
1	32135: contig of 32135 bp in length
**	32136 32235: gap of unknown length
*	32236 184822: contig of 152587 bp in length.
FEATURES	
source	Location/Qualifiers 1..184822 /organism="Nectus nancyanae" /mol_type="genomic DNA" /db_xref="taxon:37293" /clone="CH258-450E24" gap 32136..32235 estimated_length=unknown
ORIGIN	
Query Match	40.3%; Score 161.2; DB 12; Length 184822;
Best Local Similarity	75.9%; Pred. No. 4.7e-44;
Matches 211; Conservative	1; Mismatches 64; Indels 2; Gaps 1;
Df	81 ATGCGTGAATCCCAAGCATCTTGCGGGAGGCCAAGGTGGCGGATCATTGCATGACAAAGA 140
Oy	133786 AGCCTGTGAATTCAGCACCTTTGGAGGCCAAGCGGGTGCATC--GAGGTCAAAGA 1337228
Dd	141 TCGAGACCATCTTGGCCAACATGTGAAAACCCGCTTTACTTAATAATACAATAATAGC 200
Oy	133728 TCGAGACCATCTTGTCAACATGTGAAAAACCGCTCTACTTAATAATACAATAATAGC 1336658
Oy	201 TGGCGATGTGGCACACACCTGTAGTCCCGACGATCTCAGAGCCGAGATTCAGTGAAGC 260
Dd	133668 TGCGCATGTGGCACACACCTTGAATCCACGACTACTTGGAGCGTGAATGATGAGAAATTG 1336058
Oy	261 TGAGATCCAGAGTAGAGCCGAATACACAGATACACAGTAGAGAGTAGAGACKCGTCT 320
Dd	133608 CTTGAACCCAGAGAGCGAGAGGTGACCTCAGCTCGGATACAAAGATGAAACTGTCT 1335458
Oy	321 CAATAAACACACCAAAAAAAAAAACCATAAGACAT 358
Dd	133548 CAATAAAAAAAAAAAAAAAAAAGAAAAGAAATMAACTT 133511
RESULT 4	
AC146898	AC146898 232406 bp DNA linear HTG 03-DEC-2003
LOCUS	Pongo pygmaeus clone CH253-50L14, WORKING DRAFT SEQUENCE, 4 ordered pieces.
DEFINITION	AC146898.3 GI:38638702
ACCESSION	HTG, HTGS_PHASE2, HTGS_DRAFT.
KEYWORDS	Pongo pygmaeus (orangutan)
SOURCE	Pongo pygmaeus
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Pongo.
REFERENCE	1 (bases 1 to 232406) Antenalis,A., Ayele,K., Benjamin,B., Blakesley,R.W., Boutfield,G.G., Brinkley,C., Brooks,S., Chu,G., Coleman,B., Coleman,H., Engle,J., Grantle,S., Guan,X., Gupta,J., Haghighi,P., Han,J., Hansen,N., Ho,S.-L., Hu,P., Hurle,B., Idol,J.R., Karlsin,E., Kwong,P., Laric,M., Maduro,V.B., Margulis,E.H., Masello,C., Maseri,B., McDowell,J., Mullikin,J.C., Paguirigan,C., Pearson,R., Portnoy,M.E., Prasad,A., Reddik-Dugue,N., Schanderl,K., Schueler,M.G., Shah,K., Sison,C., Stancijevic,S., Thomas,J.W., Thomas,P.J., Tsipouri,V., Vogt,J.T., Wetherby,K.D., Young,A. and Green,E.D. NIH Comparative Sequencing Initiative
TITLE	Unpublished
JOURNAL	2 (bases 1 to 232406)
REFERENCE	Green,E.D.
AUTHORS	Direct Submission

JOURNAL Submitted (18-OCT-2003) NIH Intramural Sequencing Center, 8717
 GroveMont Circle, Gaithersburg, MD 20877, USA
 REFERENCE 3 (bases 1 to 232406)
 AUTHORS Green, B.D.
 TITLE Direct Submission
 JOURNAL Submitted (03-DEC-2003) NIH Intramural Sequencing Center, 8717
 GroveMont Circle, Gaithersburg, MD 20877, USA
 COMMENT On Dec 3, 2003 this sequence version replaced gi:38016037.
 ----- Genome Center
 Center: NIH Intramural Sequencing Center
 Center code: NISC
 Web site: http://www.nisc.nih.gov
 Contact: nisc.zoo@hgri.nih.gov
 ----- Project Information
 Project name: ely
 Center project name: ely
 Center clone name: 050L14

The sequence data in this record represents an 'enhanced' version of a Phase 2 submission. Specifically, the indicated order and orientation of each sequence contig has been established using one or more of the following: read-pair data from individual subclones, overlaps with neighboring clones, alignment with available reference sequence (e.g., human), and/or confirmation by PCR testing. In addition, the sequence assembly is based on at least 8X average coverage in Q20 bases and has been reviewed to rule out gross misassemblies, the low-quality ends of sequence contigs have been trimmed away, and each base is associated with a Phrap-derived quality score.

----- Summary Statistics

Sequencing vector: plasmid; n/a; 100% of reads
 Chemistry: Dye-terminator Big Dye; 100% of reads
 Assembly program: Phrap; version 0.990319
 Consensus quality: 231482 bases at least Q40
 Consensus quality: 231897 bases at least Q30
 Consensus quality: 232064 bases at least Q20
 Insert size: 245000; agarose-fp
 Insert size: 232106; sum-of-contigs
 Quality coverage: 21.15x in Q20 bases; agarose-fp
 Quality coverage: 22.32x in Q20 bases; sum-of-contigs

 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 4 contigs. Gaps between the contigs
 * are represented as runs of N. The order of the pieces
 * is believed to be correct as given, however the sizes
 * of the gaps between them are based on estimates that have
 * provided by the submitter.
 * This sequence will be replaced
 * by the finished sequence as soon as it is available and
 * the accession number will be preserved.
 * 1 80408: contig of 80408 bp in length
 * 80409 80508: gap of unknown length
 * 80509 101957: contig of 21449 bp in length
 * 101958 102057: gap of unknown length
 * 102058 206149: contig of 104092 bp in length
 * 206150 206249: gap of unknown length
 * 206250 232406: contig of 26157 bp in length.
 Location/Qualifiers

FEATURES

source
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 /organism="Pongo pygmaeus"
 /mol_type="genomic DNA"
 /db_xref="taxon:9600"
 /clone="CH253-50L14"
 /clone_id="CH253"
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 /note="assembly_fragment
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 vector_side:left"
 80409. 80508
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 80509. 101957
 /note="assembly_fragment"
 101958. 102057
 gap
 misc_feature
 101958. 102057

misc_feature /estimated_length=unknown
 102058. 206149
 /note="assembly_fragment"
 gap 206150. 206249
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 clone_end:8P6
 vector_side:right"

ORIGIN

Query Match 40.2%; Score 160.6; DB 12; Length 232406;
 Best Local Similarity 77.0%; Pred. No. 8.6e-44;
 Matches 207; Conservative 1; Mismatches 60; Indels 1; Gaps 1;

Qy 84 CCTGTAATCCAGACCTTCGGAGGCGCAAGGTGGCGGATCAGTCAAGTCAAGATCG 143
 Db 149600 CCTGTAATCCAGACCTTCGGAGGCGCAAGGTGGCGGATCAGTCAAGTCAAGATCG 149659
 Qy 144 AGACCATCTTCGCGCACTGTGTAAACCCGCTCTTTACTAAATACAAAATAGCTCG 203
 Db 149660 AGACCATCTTCGCGCACTGTGTAAACCCGCTCTTTACTAAATACAAAATAGCTCG 149719
 Qy 204 GCATGTGGGACACACCTGTAGTCCAGCTACTACAGAGCGCGGATTGACGTAGCTGA 263
 Db 149720 GCTGTGGGACACACCTGTAGTCCAGCTACTACAGAGCGCGGATTGACGTAGCTGA 149779
 Qy 264 GATCGACAGTGAAGCCCAATTCACAGATCAAGATGAGCAGATGAGACCCGCTTCA 323
 Db 149780 GATCGACAGTGAAGCCCAATTCACAGATCAAGATGAGCAGATGAGACCCGCTTCA 149838
 Qy 324 AAACACACACAAAACAAAACCAATCA 352
 Db 149839 AAACACACACAAAACAAAACCAATCA 149867

RESULT 5

AC005497
 LOCUS 97676 bp DNA linear PRI 17-JUN-2000
 DEFINITION Homo sapiens chromosome 17, clone RP11-952N18, complete sequence.
 AC005497
 AC005497.9 GI:8570495
 VERSION
 KEYWORDS
 SOURCE
 ORGANISM

Homo sapiens (human)
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homidae; Homo.

REFERENCE 1 (bases 1 to 97676)
 AUTHORS Birren, B., Linton, J., Nusbaum, C. and Lander, E.
 TITLE Homo sapiens chromosome 17, clone RP11-952N18
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 97676)
 AUTHORS Birren, B., Fasmann, K., Linton, J., Nusbaum, C., Lander, E., Allen, N.,
 Anderson, M., Baker, J., Baldwin, J., Barna, N., Beckert, R., Benn, J.,
 Boutwell, C., Brown, A., Castle, A., Cerny, J., Colangelo, M.,
 Collins, S., Collins, A., Cooke, P., Corlies, D., Depayre, E.,
 Devlin, K., Dewar, K., Donelan, L., Ferreira, P., Fitzhugh, W.,
 Forrest, C., Funke, R., Gage, D., Gardyna, S., Geradly, K., Grant, G.,
 Hagos, B., Haefford, A., Herena, L., Horton, L., Howland, J. C.,
 Jacotot, L., Jones, C., Kann, L., Karas, A., Lehotzky, J.,
 Macdonald, P., Margulis, N., McEwan, P., McGuck, A., McKernan, K.,
 Melchior, J., Moll, M., Morris, W., Morrow, J., Mychaleckyj, J.,
 Naf, R., Naylor, J., Nilot, M., O'Connor, T., O'Donnell, P.,
 Pavlin, B., Peterson, K., Riley, R., Roberts, D., Roy, A.,
 Strange-Thomann, N., Stillwell, J., Stojanovic, N., Stone, C.,
 Subramanian, A., Tefaye, S., Tichovolsky, N., Tortorella-Miller, I.,
 Vassiliou, H., Vo, A., Wagner, A., Wheeler, J., Wu, Y., Wyman, D.,
 Ye, W. J., Zhao, J. and Zody, M.

TTITLE Direct Submission
 JOURNAL Submitted (19-AUG-1998) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 REFERENCE 3 (bases 1 to 97676)

AUTHORS
 Birren, B., Linton, L., Nusbaum, C., Lander, E., Abraham, H., Allen, N., Anderson, S., Baldwin, J., Barna, N., Bastien, V., Beda, F., Boguslavsky, L., Bouckhalter, B., Brown, A., Burkett, G., Campopiano, A., Castle, A., Choquet, Y., Colangelo, M., Collins, S., Collymore, A., Cooke, P., Dearellano, K., Dewar, K., Diaz, J. S., Dodge, S., Domino, M., Doyle, M., Ferreira, P., Fitzhugh, W., Gage, D., Galagan, J., Gardy, S., Ginde, S., Goyette, M., Graham, L., Grand-Pierre, N., Grant, G., Hagos, B., Heaford, A., Horton, L., Howland, J. C., Iliev, I., Johnson, R., Jones, C., Kahn, L., Kartas, A., Klein, J., Lacroque, K., Lamazares, R., Landers, T., Lehoczy, J., Levine, R., Liu, C., Liu, G., Locke, K., Macdonald, P., Margulis, N., McCarthy, M., McEwan, P., McGurk, A., McKenna, K., McPheeters, R., Mediriri, J., Menus, L., Minova, T., Miranda, C., Mlenga, V., Morrow, J., Murphy, T., Naylor, T., Norman, C. H., O'Connor, T., O'Donnell, P., O'Neil, D., Oliver, T. M., Oliver, J., Peterson, K., Pierre, N., Pisanu, C., Pollara, V., Raymond, C., Riley, R., Rogov, P., Rothman, D., Roy, A., Santos, R., Schauer, S., Severy, P., Spencer, B., Strange-Rhomann, N., Stojanovic, N., Subramanian, A., Talamas, J., Tesfaye, S., Theodore, J., Tirrell, A., Travers, M., Trigilio, J., Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W. J., Young, G., Zainoun, D., Zimmer, A. and Zody, M.

TITLE
 Direct Submission

JOURNAL
 Submitted (17-JUN-2000) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA

COMMENT
 On Jun 17, 2000 this sequence version replaced gi:7139014.
 All repeats were identified using RepeatMasker:
 smtc, A.F.A. & Green, P. (1996-1997)
 http://ftp.genome.washington.edu/RM/RepeatMasker.html

Only 97676 base pairs from the middle of this clone are being submitted. The remainder overlaps either accession AC015842 (WICGR project L449) or accession AC005304 (WICGR project L356). 850 base pairs into the overlap with L449 [not submitted] is a VNTR that has been expanded by approximately 2.1 Kilobases relative to project L449.

----- Genome Center
 Center: Whitehead Institute/ MIT Center for Genome Research
 Center code: WICR
 Web site: http://www-seq.wi.mit.edu
 Contact: sequence_submissions@genome.wi.mit.edu
 ----- Project Information
 Center project name: L370
 Center clone name: 952_N_18

FEATURES
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 Location/Qualifiers
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 /db_xref="taxon:9606"
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 /map="17"
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 /clone_1lb="RP11 Human Male BAC"
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 706..851
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 /rpt_family="MLT2FA"
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Best Local Similarity 74.8%; Pred. No. 9.3e-44;

Matches 199; Conservative 1; Mismatches 66; Indels 0; Gaps 0;

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QY 141 TCGAGACCATCTTGCGCCACATGTGAAACCCCGTCTTACTATAAATACAAAAATAGC 200
DB 36193 TCAAGACCAAGCTGGCCCAATGAGAAATCCGCTCTACTATAAATAGAAATTTAGC 36252
QY 201 TGGGCACTGTGGCAACACCTGTACTCCAGACTACTCGAGACCGAGATTCAGTAGGC 260
DB 36253 CGGGCATGTGTGGCACTGTCTGTATCCAGCTCTCGGAGGCGTGAAGGAGGACTG 36312
QY 261 TGAATGCGACAGAGGAGCGCAATTCACAGATCACAGATGAGAGTGAAGCCKCCGCT 320
DB 36313 CTTGATACCCAGAGGAGGAGGTGTGCTCCAGCTCGTTAACAGATGAAATCTCATCT 36372
QY 321 CAAAAACAAACAAACAAACAAACAA 346
DB 36373 CACAAAAAATAAAAAAAAAAAAAA 36398

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RESULT 6

AL445686/c 107868 bp DNA linear PRI 18-MAY-2005

LOCUS Human DNA sequence from clone Rpl1-496D1 on chromosome 1 contains the gene for a novel protein (RPL26) a ribosomal protein L26 (RPL26) pseudogene, the 5' end of the SRM1 gene for

beta1/arginine repetitive matrix 1 and a Cpg island, complete sequence.

AL445686

AL445686.14 GI:12666298

HTG: FLJ42528; RPL26; SRM1.

KEYWORDS Homo sapiens (human)

SOURCE Homo sapiens

ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 107868)

AUTHORS Coville,C.

TITLE Direct Submission

JOURNAL Submitted (13-MAY-2005) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: vegas@sanger.ac.uk

COMMENT On Feb 5, 2001 this sequence version replaced gi:12581050.

The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em; EMBL; Sw; SWISSPROT; Tr; TREMBL; Wp; WORMPEP; Information on the WORMPEP database can be found at

http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence

FEATURES

This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one subclone; and the assembly was confirmed by restriction digest, except on the rare occasion of the clone being a YAC.

Location/Qualifiers

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/mol_type="genomic DNA"

/db_xref="taxon:9606"

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100

/note="Clone right end: RPl-594110"

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/note="match: cDNAs: Em:AK124519.1"

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/codon_start=1

/product="ribosomal protein L26 (RPL26) pseudogene"

38568

/locus_tag="Rpl1-496D1.1-001"

/note="Clone left end: RPl1-373M8"

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poly_a_signal


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RESULT 8
LOCUS   HS408N23
DEFINITION Human DNA sequence from clone RP3-408N23 on chromosome 22q13,
ACCESSION Z98048
VERSION   Z98048.1
KEYWORDS  GI:2582746
SOURCE    HTG.
          Homo sapiens (human)
          Homo sapiens
          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
          Homnidae; Homo.
          1 (bases 1 to 97916)
          Hunt, A.

REFERENCE
AUTHORS  Direct Submission
TITLE     Submitted (13-MAY-2005) Wellcome Trust Sanger Institute, Hinxton,
JOURNAL  Cambridgehire, CB10 1SA, UK. E-mail enquiries: vegas@sanger.ac.uk
COMMENT  Clone requesters: clonerequest@sanger.ac.uk
        On Nov 2, 1997 this sequence version replaced GI:2462400.
        The following abbreviations are used to associate primary accession
        numbers given in the feature table with their source databases:
        Bm, EMBL; Sw, SWISSPROT; Tr, TREMBL; Wp, WORMPEP; Information
        on the WORMPEP database can be found at
        http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence
        was generated from part of bacterial clone configs of human
        chromosome 22, constructed by the Sanger Centre Chromosome 22
        Mapping Group. Further information can be found at
        http://www.sanger.ac.uk/KEP/Chr22
        RP3-408N23 is from the library RPCI-3 constructed by the group of
        Pieter de Jong. For further details see
        http://www.chori.org/bacpac/home.htm
        VECTOR: PCYPAC2
        ----- Genome Center
        Center: Wellcome Trust Sanger Institute
        Center code: SC
        Web site: http://www.sanger.ac.uk
        Contact: vegas@sanger.ac.uk
        -----
        This sequence was finished as follows unless otherwise noted: all
        regions were either double-stranded or sequenced with an alternate
        chemistry or covered by high quality data (i.e., phred quality >=
        30); an attempt was made to resolve all sequencing problems, such
        as compressions and repeats; all regions were covered by at least
        one subclone; and the assembly was confirmed by restriction digest,
        except on the rare occasion of the clone being a YAC.

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gene mRNA CDS

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LQKPAATRDICRAETINPDQKQYKMGKARHLIGHSEAHNDALAKCDYDSDA
AMLKEVQPAQKIAEHRKRYEKREKREIKETIERVKAREHEHQAQEEERKQSGA
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VEEAFLYAKKEFECCARADILAYPVAAGNSNTLIVYNNQLIKDGEVLLDGGC
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/standard_name="OTTHUMP0000028874"
/note="match: proteins: Tr:054946"
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GSLGHEGLTFSSSLAFPNSGMDNYISVTSDDIKVNGNINTKLIEEDQEREADNGR
LTFVLVNSVANNBEGFAKESWRQSPFNNSPNSHSVHSQYTVNDDEGISVWTSN
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ORIGIN

Query Match 39.9%; Score 159.4; DB 5; Length 97916;
Best Local Similarity 75.7%; Pred. No. 1.5e-43;
Matches 196; Conservative 1; Mismatches 62; Indels 0; Gaps 0;

QY 81 ATGCCTGTAATCCAGCATTCGGGAGGCCAAGTGGCGGATCACTGAGAGTCAAGGA 140
DB 11289 ACGCCTGTAAATCCAGCATTCGGGAGGCTGAGGTGGATCACTGAGAGTCAAGGAGT 11348
QY 141 TCGAGACCATCTGGCCCAAGGTAACCCCGCTTACTTAAAAATACAAAAATATGCG 200
DB 11349 TCGAGATGAGCTGGCCCAAGGTAACCCCATCTTACTTAAAAATACAAAAATTTGCG 11408
QY 201 TGGGATGATGGGCAACACCTGTAGTCCAGCTACTCAGAGCCGAGATTGCACTGAGC 260
DB 11409 TGGGATGATGGGCAACATGCTGTATCCAGCTACTCGGAGGCTGAGACAGAGAAATCA 11468
QY 261 TGAAGTCCGACAGTGAGCCGAATATCAGATTCACAGAGTGAAGAGTGAACACCCGCT 320
DB 11469 CGTGATCCAGCGCAGAGTTGTGCGCATGCACTCAACTGGGTAAAGAGACTGTGCT 11528
QY 321 CAAAAACAACAACAAAAA 339
DB 11529 CAAAAAATAAAAAAAGA 11547

RESULT 9
AC090344/c 195616 bp DNA linear HTG 07-JUL-2001
LOCUS AC090344 Homo sapiens chromosome 11 clone RP11-804A23 map 11, WORKING DRAFT
DEFINITION
SEQUENCE, 10 unordered pieces.
AC090344
AC090344.3 GI:14626339

KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Homo.

REFERENCE 1 (bases 1 to 195616)

AUTHORS Birren, B., Linton, L., Nusbaum, C. and Lander, B.

TITLE Homo sapiens chromosome 11, clone RP11-804A23

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 195616)

AUTHORS Birren, B., Linton, L., Nusbaum, C., Lander, E., Allen, N., Anderson, S., Barrera, N., Baatien, V., Boguslavsky, L., Bouckhalter, B., Brown, A., Camarata, J., Campopiano, A., Colebelli, Y., Colangelo, M., Collins, S., Collumore, A., Cooke, P., Dearrellano, K., Dewar, K., Diaz, J.S., Dodge, S., Faro, S., Ferreira, P., Fitzhugh, W., Gage, D., Galagan, J., Gardyn, S., Ginde, S., Goyette, M., Graham, L., Grand-Pierre, N., Hages, B., Heaford, A., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C., Karatas, A., Larocque, K., Lamazares, R., Landers, T., Lehoczy, J., Levine, R., Liu, G., Maclean, C., Macdonald, P., Marquis, N., Mathews, C., McCarthy, M., McEwan, P., McKernan, K., McPherson, R., Meldrum, J., Meneus, L., Minova, T., Mienga, V., Murphy, T., Naylor, J., Nguyen, C., Norbu, C., Norman, C.H., O'Connor, T., O'Donnell, P., O'Neill, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N., Pollara, V., Raymond, C., Retia, R., Riback, M., Riley, R., Rise, C., Rogov, P., Roman, J., Rosetti, M., Roy, A., Santos, R., Schauer, S., Schupbach, R., Seaman, S., Severy, P., Sougnez, C., Spencer, B., Stange-Thomann, N., Stojanovic, N., Straus, N., Subramanian, A., Talamas, J., Testaye, S., Theodore, J., Travers, M., Travis, N., Triggillo, J., Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W. J., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.

Direct Submission

Submitted (17-FEB-2001) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02441, USA

On Jul 7, 2001 this sequence version replaced gi:13357354.

All repeats were identified using RepeatMasker:

Smit, A.F.A. & Green, P. (1996-1997)

http://ftp.genome.washington.edu/RM/RepeatMasker.html

Genome Center

Center: Whitehead Institute/ MIT Center for Genome Research

Center code: WIBR

Web site: http://www-seq.wi.mit.edu

Contact: sequence_submissions@genome.wi.mit.edu

Project Information

Center project name: 804_A_23

Center clone name: L12622

----- Summary Statistics

Sequencing vector: Plasmid; n/a; 100% of reads

Chemistry: Dye-terminator Big Dye; 100% of reads

Assembly program: Phrap; version 0.960731

Consensus quality: 191318 bases at least Q40

Consensus quality: 193221 bases at least Q30

Consensus quality: 194120 bases at least Q20

Insert size: 194716; sum-of-contigs

Quality coverage: 9.4 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently consists of 10 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

1 9269: contig of 9269 bp in length

* 9270 9369: gap of 100 bp

* 9370 10358: contig of 989 bp in length

* 10359 10458: gap of 100 bp

* 10459 13650: contig of 3092 bp in length

* 13651 26322: gap of 100 bp

* 26323 26322: contig of 12572 bp in length

* 26323 26322: gap of 100 bp

FEATURES

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/db_xref="taxon:9606"

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Best Local Similarity 74.0%; Pred. No. 3.5e-43;

Matches 216; Conservative 1; Mismatches 68; Indels 7; Gaps 1;

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DB 91667 ATGCGCTTAATCCAGCACTTCGGAGAGCCGAGCGGATCACTTGAAGTCAAGGAGT 91608

OY 141 TCGAGACCATCTCGCCCAACATGATGAACCCCGCTTTTACTAATAAATAACAAAAATAGC 200

Db	LOCUS	DEFINITION	VERSION	KEYWORDS	ORGANISM	REFERENCE	TITLE	JOURNAL	COMMENT
Db	91607	TCGAGGACCACTGGGCCAACATGATGAAACCCCGCCTCTACTTAAATTCACAAAATTGAC							
Qy	201	TGGGCATGTGTGGCACAACCTGTATGTCCACGTACTCTCAGA-----GCCGAGATTGC	253						
Db	91547	CAGCCGCGGGGCGCAGTTGCTCTGTAATCTCCAGCTACTCTGGGAGACTGAGCAGAGATTG	91488						
Qy	254	AGTAGCTGAGATGTGCGAGGTGAGCCGAATTCACAGATCAACAGTAGCAGGTGAGAC	313						
Db	91487	CTTTAAGCCCGAGAGCGACGAGGTTCGACTAGCTTAATGTCTGCTCGGCAAGATGAC	91428						
Qy	314	KCCGCTCTCAAAAACAACACAAAAAACAAAAAACCATAGACATTGTCCAT	365						
Db	91427	TCCATCTCAAGAAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAACCTGTAGTCTAT	91376						
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LOCUS	AC090345	197156 bp	DNA	linear	HTG 11-JUL-2001				
DEFINITION	Homio sapiens chromosome 11 clone RP11-804B24 map 11, WORKING DRAFT								
SEQUENCE	AC090345	10 unordered pieces.							
VERSION	AC090345	GI:1467011							
KEYWORDS	HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.								
ORGANISM	Homio sapiens (human)								
REFERENCE	1 (bases 1 to 197156)								
AUTHORS	Britten, B., Linton, J., Nusbaum, C. and Lander, E.								
TITLE	Homio sapiens chromosome 11, clone RP11-804B24								
JOURNAL	Unpublished								
REFERENCE	2 (bases 1 to 197156)								
AUTHORS	Britten, B., Linton, J., Nusbaum, C., Lander, E., Allen, N., Anderson, S., Batra, N., Bastien, V., Bonuskavsky, L., Bouckgeert, B., Brown, A., Camarata, J., Campiano, A., Choepel, Y., Colangelo, M., Collins, S., Collymore, A., Cooke, P., DeBelle, K., Dewar, K., Diaz, J. S., Dodge, S., Fero, S., Ferreira, P., Fitzhugh, W., Gage, D., Galagan, J., Gady, S., Ginde, S., Goyette, M., Graham, L., Grand-Pierre, N., Hago, B., Heaford, A., Horton, J., Hulme, W., Iliev, I., Johnson, R., Jones, C., Karatas, A., Larocque, K., Lamazares, R., Landers, T., Lehoczy, J., Levine, R., Liu, G., Maclean, C., Macdonald, P., Marquis, N., Matthews, C., McCarthy, M., McEwan, P., McKernan, K., McNetters, R., Meldrum, J., Neneus, L., Mihova, T., Mlenga, V., Murphy, T., Naylor, J., Nguyen, C., Norbu, C., Norman, C. H., O'Connor, T., O'Donnell, P., O'Neill, D., Oliver, J., Peterson, K., Phukhang, P., Pierre, N., Pollara, V., Raymond, C., Retta, R., Ribback, M., Riley, R., Rise, C., Rogov, P., Roman, J., Rosetti, M., Roy, A., Santos, R., Schauer, S., Schnback, R., Seaman, S., Severy, P., Sougnaz, C., Spencer, B., Strange-Thomann, N., Stojanovic, N., Straus, N., Subramanian, A., Talamas, J., Teste, S., Theodore, J., Travers, M., Travis, N., Triglilio, J., Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W. J., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.								
TITLE	Direct Submission								
JOURNAL	Submitted (17-FEB-2001) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA								
COMMENT	On Jul 11, 2001 this sequence version replaced g1:3357355. All repeats were identified using RepeatMasker: Smit, A.F.A. & Green, P. (1996-1997) http://ftp.genome.washington.edu/RM/RepeatMasker.html								
	----- Genome Center								
	Center: Whitehead Institute/ MIT Center for Genome Research								
	Center code: WIRB								
	Web site: http://www-seq.wi.mit.edu								
	Contact: sequence_submissions@genome.wi.mit.edu								
	----- Project Information								
	Center project name: L12623								
	Center clone name: 804 B 24								
	----- Summary Statistics								
	Sequencing vector: Plasmid; n/a; 100% of reads								
	Chemistry: Dye-terminator Big Dye; 100% of reads								

[illegible]

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ORIGIN

Query Match 39.7%; Score 158.8; DB 12; Length 197156;
Best Local Similarity 74.0%; Pred. No. 3.5e-43;
Matches 216; Conservative 1; Mismatches 68; Indels 7; Gaps 1;

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88380 ATGCTGTAAATCCGACGACTTGGGAGGCCAAGTGGGGGATCACTGAGGTCAAGA 88321
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RESULT 11
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LOCUS Homo sapiens genomic DNA, chromosome 11 clone:RP11-804A23, complete
DEFINITION
ACCESSION AP000777
VERSION AP000777.4 GI:28189489
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE
AUTHORS Hattori, M., Ishii, K., Toyoda, A., Taylor, T. D., Hong-Seog, P.,
Fujiyama, A., Yada, T., Totoki, Y., Watanabe, H., and Sakaki, Y.
TITLE Homo sapiens genomic DNA
JOURNAL Published Only in Database (1999)
REFERENCE 2 (bases 1 to 197856)
AUTHORS Hattori, M., Ishii, K., Toyoda, A., Taylor, T. D., Hong-Seog, P.,
Fujiyama, A., Yada, T., Totoki, Y., Watanabe, H., and Sakaki, Y.
TITLE Direct Submission
JOURNAL Submitted (25-NOV-1999) Masahira Hattori, The Institute of Physical
and Chemical Research (RIKEN), Genomic Sciences Center (GSC),
1-7-22 Suohiro-cho, Tsukuba, Ibaraki, Japan, Kanagawa 230-0045, Japan
(E-mail:hattori@gsc.riken.go.jp, URL:http://hgp.gsc.riken.go.jp/,
Tel:81-45-503-9111, Fax:81-45-503-9170)
On Jan 31, 2003 this sequence version replaced gi:23821512.
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Best Local Similarity 74.0%; Pred. No. 3.5e-43;
Matches 216; Conservative 1; Mismatches 68; Indels 7; Gaps 1;

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52749 CAGGCTGTGGTGGCAATCTGTATCCAGCTACTCGGAGACTGAGGCAAGAAATTG 52808
254 AGTGAGCTGAGATGCGAGATGAGCCGAATACAGATCAAGACTGAGCAGAGTAGAC 313
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RESULT 12
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LOCUS Homo sapiens chromosome 8 clone RP5-1155K23 map 8, LOW-PASS
DEFINITION
SEQUENCE SAMPLING.

ACCESSION AC087662
VERSION AC087662.1 GI:12229437
KEYWORDS HTG; HTGS; PHASE0.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.

REFERENCE
AUTHORS Birren, B., Linton, L., Nusbaum, C., Lander, E., Allen, N., Anderson, S.,
Barnett, N., Bastien, V., Boguslavsky, L., Bouckgalter, B., Brown, A.,
Camarata, J., Campopiano, A., Choepel, Y., Colangelo, M., Collins, S.,
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Travers, M., Travis, N., Trigglio, J., Vassiliou, H., Viel, R., Vo, A.,
Wilson, B., Wu, X., Wyman, D., Ye, W. J., Young, G., Zainoun, D.,
Zembek, L., Zimmer, A., and Zody, M.

COMMENT
TITLE
JOURNAL
Direct Submission
Submitted (15-JAN-2001) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)

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http://ftp.genome.washington.edu/RM/RepeatMasker.html
----- Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIBR
Web site: http://www-seq.wi.mit.edu
Contact: sequence_submissions@genome.wi.mit.edu
----- Project Information
Center project name: L12144
Center clone name: 1155_K23
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* NOTE: This record contains 84 individual
* sequencing reads that have not been assembled into
* contigs. Runs of N are used to separate the reads
* and the order in which they appear is completely
* arbitrary. Low-pass sequence sampling is useful for
* identifying clones that may be gene-rich and allows
* overlap relationships among clones to be deduced.
* However, it should not be assumed that this clone
* will be sequenced to completion. In the event that
* the record is updated, the accession number will
* be preserved.
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3198 3297: gap of 100 bp
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12317 12316: gap of 100 bp
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37697 37796: gap of 100 bp
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51711 51711: contig of 713 bp in length
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 * 54251 54967: contig of 717 bp in length
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 * 55068 55780: contig of 713 bp in length
 * 55781 55880: gap of 100 bp
 * 55881 56614: contig of 734 bp in length

Query Match 39.7%; Score 158.6; DB 12; Length 66990;
 Best Local Similarity 77.7%; Pred. No. 2.5e-43;

Matches 206; Conservative 1; Mismatches 50; Indels 8; Gaps 1;

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 DB 32552 CCGTATCCAGCACTTCGGAGGCCAAGTGGCGGATCACTGAGGTCAAGATCG 32493

QY 144 AGACATCTCGGCCCACTGTGAAACCCGCTTTACTTAAATAACAAAATATGCTGG 203

DB 32492 ATACCAAGCTGCGCAACATGTGAACCTTGCTTACTTAAATAACAAAATATGCTGG 32433

QY 204 GCATGTGGCAACACCTGTAGTCCCACTCACTGAGAGCCGGATTCGATGCTGA 263

DB 32432 GCGTGTGTGACCGCTATATATCCACCTGCTCGGAGGCAAGAGTTGCAAGTGAAGA 32373

QY 264 GATCGCAGATGAGCCGAATCAACATCAACAGATGAGAGTGAAGACCCGCTCA 323

DB 32372 GATTG-----TCCATTTGCAAGCTAGCCTCGGCAACAGAGTGAATCTATCTCA 32321

QY 324 AAACACCAACAAAAACAAAAAAC 348

DB 32320 AAAAAAAAAAAAAAATATATAC 32296

RESULT 13

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 DEFINITION NOVEL COMPOSITIONS AND METHODS FOR CANCER.
 ACCESSION DD164421
 VERSION DD164421.1 GI:83948746
 KEYWORDS JP 2005510225-A/16.
 SOURCE unidentified
 ORGANISM unidentified
 unclassified sequences.
 1 (bases 1 to 96593)

REFERENCE 1 (bases 1 to 96593)
 MAURICE,D.W.
 NOVEL COMPOSITIONS AND METHODS FOR CANCER
 TITLE Patent: JP 2005510225-A 16 21-APR-2005;
 JOURNAL SAGES DISCOVERY
 OS Homo Sapien
 PN JP 2005510225-A/16
 PD 21-APR-2005
 PF 02-DEC-2002 JP 2003546739
 PR 30-NOV-2001 US 09/997722
 PI david w maurice
 CC

FEATURES

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COMMENT

ORIGIN
 Query Match 39.6%; Score 158.4; DB 2; Length 96593;
 Best Local Similarity 75.0%; Pred. No. 3.4e-43;
 Matches 216; Conservative 1; Mismatches 57; Indels 14; Gaps 1;

ORIGIN

QY 81 ATGCTGTATCCAGCACTTCGGAGGCCAAGTGGCGGATCACTGAGGTCAAGAGA 140

DB 18217 ACGCTGTATCCAGCACTTCGGAGGCCAAGTGGCGGATTCCTGAGGTCAAGAGT 18276
 QY 141 TCGAGACCATCTGGCCCACTGTGAAACCCCGCTTTACTTAAATAACAAAATATGCTGC 200
 DB 18277 TCAAGATCAGCTGGCCCACTGTGAAACCCCGCTTTACTTAAATAACAAAATATGCTGC 18336
 QY 201 TGGGATGTGGCAACACCTGTAGTCCCACTCACTGAGAGCCGGAGATTGCGATGAGC 260
 DB 18337 TGGGATGTGGCGGAGCACTGTAGTCCCACTCACTGAGAGCTGAGGCAAGAAATCG 18396
 QY 261 TGAATCGCAG-----AGTACCCCAATACAGATCAAGATGAGTGCAGCA 306
 DB 18397 CTTGAACCCAGCGCGGCGAGGTTGCAAGTGAACCCAGATTCGACCAAGCTTGGGTGCAAGC 18456
 QY 307 GTGAGACCCGCTGCAAAAACACACACAAAACAAAACCAATGAG 354
 DB 18457 GTGAGACTTCATCTCAAAAACAAAACAAAACAAAACCAACAGATG 18504

RESULT 14

AX695641 96593 bp DNA linear PAT 31-MAR-2003
 LOCUS AX695641
 DEFINITION Sequence 1268 from Patent WO03008583.
 ACCESSION AX695641
 VERSION AX695641.1 GI:29418793
 KEYWORDS Homo sapiens (human)
 SOURCE Homo sapiens
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.

REFERENCE 1
 MORRIS,D.W. and Engelhard,E.K.
 Novel compositions and methods for cancer
 TITLE Patent: WO 03008583-A 1268 30-JAN-2003;
 JOURNAL Sages Discovery (US)

FEATURES
 source Location/Qualifiers
 1..96593
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

ORIGIN

Query Match 39.6%; Score 158.4; DB 2; Length 96593;
 Best Local Similarity 75.0%; Pred. No. 3.4e-43;
 Matches 216; Conservative 1; Mismatches 57; Indels 14; Gaps 1;

QY 81 ATGCTGTATCCAGCACTTCGGAGGCCAAGTGGCGGATCACTGAGGTCAAGAGA 140

DB 18217 ACGCTGTATCCAGCACTTCGGAGGCCAAGTGGCGGATTCCTGAGGTCAAGAGT 18276

QY 141 TCGAGACCATCTGGCCCACTGTGAAACCCCGCTTTACTTAAATAACAAAATATGCTGC 200

DB 18277 TCAAGATCAGCTGGCCCACTGTGAAACCCCGCTTTACTTAAATAACAAAATATGCTGC 18336

QY 201 TGGGATGTGGCAACACCTGTAGTCCCACTCACTGAGAGCCGGAGATTGCGATGAGC 260

DB 18337 TGGGATGTGGCGGAGCACTGTAGTCCCACTCACTGAGAGCTGAGGCAAGAAATCG 18396

QY 261 TGAATCGCAG-----AGTACCCCAATACAGATCAAGATGAGTGCAGCA 306

DB 18397 CTTGAACCCAGCGCGGCGAGGTTGCAAGTGAACCCAGATTCGACCAAGCTTGGGTGCAAGC 18456

QY 307 GTGAGACCCGCTGCAAAAACACACAAAACAAAACCAATGAG 354

DB 18457 GTGAGACTTCATCTCAAAAACAAAACAAAACAAAACCAACAGATG 18504

RESULT 15

AC010677/c 112659 bp DNA linear PRI 03-JAN-2002
 LOCUS AC010677
 DEFINITION Homo sapiens chromosome 7 clone CTD-230414, complete sequence.

AC010677
AC010677.4 GI:11465112
HTG.
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
AUTHORS 1 (bases 1 to 112659)
TITLE Waterston,R.H.
JOURNAL The sequence of Homo sapiens clone
UNPUBLISHED
REFERENCE
AUTHORS 2 (bases 1 to 112659)
TITLE Unpublished
JOURNAL
REFERENCE
AUTHORS Direct Submission
TITLE Submitted (17-SEP-1999) Genome Sequencing Center, Washington
JOURNAL University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
REFERENCE
AUTHORS 3 (bases 1 to 112659)
TITLE Waterston,R.H.
JOURNAL Direct Submission
TITLE Submitted (30-NOV-2000) Genome Sequencing Center, Washington
JOURNAL University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
REFERENCE
AUTHORS 4 (bases 1 to 112659)
TITLE Waterston,R.H.
JOURNAL Direct Submission
TITLE Submitted (09-MAY-2001) Department of Genetics, Washington
JOURNAL University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
REFERENCE
AUTHORS 5 (bases 1 to 112659)
TITLE Waterston,R.H.
JOURNAL Direct Submission
TITLE Submitted (03-JAN-2002) Genome Sequencing Center, Washington
JOURNAL University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
COMMENT On Nov 30, 2000 this sequence version replaced gi:7630788.
----- Genome Center -----
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu/gsc/index.shtml
Contact: submissions@watsn.wustl.edu
Project Information -----
Center project name: H_MS2304104

FEATURES
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1..112659
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
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ORIGIN
Query Match 39.6%; Score 158.4; DB 5; Length 112659;
Best Local Similarity 73.9%; Pred. No. 3.7e-43;
Matches 201; Conservative 0; Mismatches 71; Indels 0; Gaps 0;
QY 76 GCTGAATGCTGTAATCCAGCATTGGAGGCGCAAGGTGGCGGATCACTGAGGTCA 135
DB 16959 GGTTCACGCTGTATCCAGCACTCTGGAGGCGGAGGCGGATCACTGAGGTCA 16900
QY 136 AGAGATCGAGACCATCTGCGCAACATGTTGTAACCCCGTCTTACTATAAATAACAAAA 195
DB 16899 GGAAGTTAGATCACTGCGCAACATGTTGTAACCCCGTCTTACTATAAATAACAAAA 16840
QY 196 ATAGCTGGGATGCGGCAACACCTGTGATCCAGCTACTCAGAGCGGAGATTGCG 255
DB 16839 CCAAGCTGGGTGTGGTGGTGAACGCTTGTATCTCCAGCTACTCAGAGCGGAGATTGCG 16780
QY 256 TGAGCTGAGATGCGAGAGTGAAGCCGAATCAGATCAGAGTGAAGCAGAGTGAAGC 315
DB 16779 TGAGCGGAATGCGACCACTACATCCAGCTGAGGTGAAGAGGAGACTGTGTCTCCA 16720

QY 316 GGTCTCAAAAACACACAAAAACAAAAA 347
DB 16719 GAAAAAATAAAAAAAAAAAAAAAAAA 16688
RESULT 16
AC026407
LOCUS 155344 bp DNA linear PRI 30-AUG-2001
DEFINITION Homo sapiens chromosome 5 clone CTC-370J7, complete sequence.
AC026407
VERSION AC026407.4 GI:15375158
KEYWORDS HTG.
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
AUTHORS 1 (bases 1 to 15344)
TITLE DOE Joint Genome Institute and Stanford Human Genome Center.
JOURNAL Direct Submission
UNPUBLISHED
REFERENCE
AUTHORS 2 (bases 1 to 15344)
TITLE DOE Joint Genome Institute.
JOURNAL Direct Submission
TITLE Submitted (22-MAR-2000) Production Sequencing Facility, DOE Joint
JOURNAL Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
REFERENCE
AUTHORS 3 (bases 1 to 15344)
TITLE DOE Joint Genome Institute and Stanford Human Genome Center.
JOURNAL Direct Submission
TITLE Submitted (18-JUL-2001) DOE Joint Genome Institute, 2800 Mitchell
JOURNAL Drive, Walnut Creek, CA 94598, USA
REFERENCE
AUTHORS 4 (bases 1 to 15344)
TITLE DOE Joint Genome Institute and Stanford Human Genome Center.
JOURNAL Direct Submission
TITLE Submitted (30-AUG-2001) DOE Joint Genome Institute, 2800 Mitchell
JOURNAL Drive, Walnut Creek, CA 94598, USA
COMMENT On Aug 30, 2001 this sequence version replaced gi:14861724.
Draft Sequence Produced by DOE Joint Genome Institute
www.jgi.doe.gov
Finishing Completed at Stanford Human Genome Center
www.sngc.stanford.edu
Quality: Phrap Quality >=40 99.8% of Sequence;
Estimated Total Number of Errors is 0.2.
SFS Content:
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WI-6759 G05738
SHGC-58349 G38490
SHGC-57583 G37344.
FEATURES
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ORIGIN
Query Match 39.6%; Score 158.2; DB 5; Length 155344;
Best Local Similarity 78.5%; Pred. No. 5.1e-43;
Matches 205; Conservative 0; Mismatches 48; Indels 8; Gaps 1;
QY 81 ATGCTGTAAATCCAGCACTTGGAGGCGCAAGGTGGCGGATCACTGAGGTCAAGA 140
DB 95307 ATGCTGTAAATCCAGCACTTGGAGGCGCAAGGTGGCGGATCACTGAGGTCAAGA 95366
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DB 95367 TCAAGACCAAGCTGGCCAACTGTTGTAACCCCGTCTTACTATAAATAACAAAAATAGC 95426
QY 201 TGGGATGATGCGACACCTGTGATCCAGCTACTCAGAGCGGAGATTGCGAGTGC 260
DB 95427 TGGGATGATGCGAGGCGCTGTGATCCAGCTACTCAGAGCGGAGATTGCGAGTGC 95486

OY 261 TGAGATCGCAGAGTGAGCCGAATATCAGATCAGAGAGTGAGAGTGAGCCKCGCT 320
 DB 95487 TGAAGTTG-----TGCACCTGCACTTCAGAGCTGGGTGACAAAGCAAAACATCTCT 95538
 OY 321 CAAAAACAACAACAAAAACA 341
 DB 95539 CAAAAAAAAAAAAAAAAAGCA 95559
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 LOCUS Homo sapiens chromosome 16 clone RP11-46107, complete sequence.
 AC040168
 AC040168.8 GI:29366942
 VERSION HTG.
 KEYWORDS Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.
 REFERENCE 1 (bases 1 to 170154)
 AUTHORS Doe Joint Genome Institute, Stanford Human Genome Center and Los
 Alamos National Laboratory.
 TITLE Unpublished
 JOURNAL 2 (bases 1 to 170154)
 REFERENCE DOE Joint Genome Institute.
 AUTHORS Direct Submission
 JOURNAL Submitted (11-APR-2000) Production Sequencing Facility, DOE Joint
 Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
 REFERENCE 3 (bases 1 to 170154)
 AUTHORS DOE Joint Genome Institute.
 JOURNAL Direct Submission
 Submitted (03-MAY-2002) Production Sequencing Facility, DOE Joint
 Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
 REFERENCE 4 (bases 1 to 170154)
 AUTHORS DOE Joint Genome Institute.
 JOURNAL Direct Submission
 Submitted (22-JAN-2003) Production Sequencing Facility, DOE Joint
 Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
 REFERENCE 5 (bases 1 to 170154)
 AUTHORS DOE Joint Genome Institute, Stanford Human Genome Center and Los
 Alamos National Laboratory.
 TITLE Direct Submission
 JOURNAL Submitted (29-MAR-2003) DOE Joint Genome Institute, 2800 Mitchell
 Drive, Walnut Creek, CA 94598, USA
 COMMENT On Mar 29, 2003 this sequence version replaced gi:27819471.
 Draft Sequence Produced by DOE Joint Genome Institute
 www.jgi.doe.gov
 Finishing Completed at Stanford Human Genome Center and Los Alamos
 National Laboratory
 www.sbgc.stanford.edu
 Quality: Phrap Quality >=40 100% of Sequence;
 Estimated Total Number of Errors is 0.
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 Best Local Similarity 75.8%; Pred. No. 7.3e-43;
 Matches 207; Conservative 1; Mismatches 63; Indels 2; Gaps 1;
 OY 81 ATGCTGTATCCAGCAGCTTCGAGAGCCAGAGTGCGGATCACTGAGGTCAAGAGA 140
 DB 134321 AGCGCTGTATCCAGCAGCTTCGAGAGCCAGAGTGCGGATCACTGAGGTCAAGAGA 134378

OY 141 TGAGACCATCTGCGCCACAATGAGTGAACCCCGCTTTACTTAATAAATACAAAAATAGC 200
 DB 134379 TCGAGACCATCTGCGCCACAATGAGTGAACCCCGCTTTACTTAATAAATACAAAAATAGC 134438
 OY 201 TGGGATGATGAGCAGACACCTGTAGTCCAGCTACTCTCAGAGCCGAGATTGCACTGAGC 260
 DB 134439 CGGGCGTGTGGCTGCGACACTGTATATCCAGCTACTTGGAGTGTGAGGACAGATATATCG 134498
 OY 261 TGAGATCGCAGAGTGAGCCGAATATCAGATCAGAGAGTGAGCAGAGTGAACCKCGCT 320
 DB 134499 CTGTAACCTGGAGGCGGAGGTGGACACTCAGCGCTGTGACAGAGAGACTCGCTCT 134558
 OY 321 CAAAAACAACAACAAAAACAACAAACATTA 353
 DB 134559 CAAAAAAAAAAAAAAAAACCAAAAAAAAAAGCA 134591
 RESULT 18
 AC018605
 LOCUS Homo sapiens chromosome 16 clone RP11-764C24 map 16, WORKING DRAFT
 DEFINITION
 AC018605
 AC018605.4 GI:10047801
 VERSION HTG; HTGS PHASE1; HTGS_DRAFT.
 KEYWORDS Homo sapiens (human)
 SOURCE Homo sapiens
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.
 REFERENCE 1 (bases 1 to 186747)
 AUTHORS Birren, B., Linton, L., Nusbaum, C. and Lander, E.
 JOURNAL Homo sapiens chromosome 16, clone RP11-764C24
 REFERENCE 2 (bases 1 to 186747)
 AUTHORS Birren, B., Linton, L., Nusbaum, C., Lander, E., Abraham, H., Allen, N.,
 Anderson, S., Baldwin, J., Barna, N., Beckerly, R., Beda, F.,
 Boguslavsky, L., Bouckhagalter, B., Brown, A., Burkett, G., Cattle, A.,
 Choapel, V., Colangelo, M., Collins, S., Collymore, A., Cooke, P.,
 DeArrellano, K., Dewar, K., Domino, M., Doyle, M., Fensholt, J.,
 Ferreira, P., Fitzhugh, W., Forrest, C., Gage, D., Galagan, J.,
 Gardyna, S., Grant, G., Hagos, B., Heaford, A., Horton, L.,
 Howland, J. C., Johnson, R., Jones, C., Kam, L., Karatas, A., Klein, J.,
 Landers, T., Lehotzky, J., Levine, R., Lien, C., Liu, G., Locke, K.,
 MacDonald, P., Marquis, N., McEwan, P., McGuirk, A., McKernan, K.,
 Meldrim, J., Menus, L., Morrow, J., Naylor, J., Norman, C. H.,
 O'Connor, T., O'Donnell, P., Olivar, T. M., Peterson, K., Pierre, N.,
 Pisan, C., Pollara, V., Raymond, C., Riley, R., Rothman, D., Roy, A.,
 Santos, R., Severy, P., Spencer, B., Stange-Thomann, N., Stojanovic, N.,
 Subramanian, A., Talamas, J., Testaye, S., Theodore, J., Tirrell, A.,
 Vassiliev, H., Viel, R., Vo, A., Wu, X., Wyman, D., Ye, W. J., Zimmer, A.
 and Zody, M.
 TITLE Direct Submission
 JOURNAL Submitted (14-DEC-1999) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 REFERENCE 3 (bases 1 to 186747)
 AUTHORS Birren, B., Linton, L., Nusbaum, C., Lander, E., Abraham, H., Allen, N.,
 Anderson, S., Barna, N., Baetien, V., Beda, F., Boguslavsky, L.,
 Bouckhagalter, B., Brown, A., Burkett, G., Campioiano, A., Casle, A.,
 Choapel, V., Colangelo, M., Collins, S., Collymore, A., Cooke, P.,
 DeArrellano, K., Dewar, K., Diaz, J. S., Dodge, S., Ferreira, P.,
 Fitzhugh, W., Gage, D., Galagan, J., Gardyna, S., Ginde, S., Goyette, M.,
 Greham, L., Grand-Pierre, N., Hagos, B., Heaford, A., Horton, L.,
 Iliev, I., Johnson, R., Jones, C., Kam, L., Karatas, A., LaRoque, K.,
 Lamazares, R., Landers, T., Lehotzky, J., Levine, R., Liu, G.,
 MacDonald, P., Marquis, N., McCarty, M., McEwan, P., McKernan, K.,
 McHeeters, R., Meldrim, J., Menus, L., Mihova, T., Mlenga, V.,
 Morrow, J., Murphy, T., Naylor, J., Norman, C. H., O'Connor, T.,
 O'Donnell, P., O'Neill, D., Olivar, T. M., Oliver, J., Peterson, K.,
 Pierre, N., Pisan, C., Pollara, V., Raymond, C., Rieback, M., Riley, R.,
 Rogov, P., Rothman, D., Roy, A., Santos, R., Schauer, S., Severy, P.,
 Sougnaz, C., Spencer, B., Stange-Thomann, N., Stojanovic, N.,
 Straube, N., Subramanian, A., Talamas, J., Testaye, S., Theodore, J.,

TITLE
JOURNAL
COMMENT

Tirelli, A., Travers, M., Trigilio, J., Vaasiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W. J., Young, G., Zainoun, J., Zimmer, A. and Zody, M.
Direct Submission
Submitted (24-AUG-2002) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
On Sep 10, 2000 this sequence version replaced gi:7407949.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html

Center: Whitehead Institute/ MIT Center for Genome Research

Center code: MBR

Web site: http://www-seq.wi.mit.edu

Contact: sequence.submissions@genome.wi.mit.edu

Project Information

Center project name: 764_C_24

Center clone name: 764_C_24

Summary Statistics

Sequencing vector: M13; M77815; 100% of reads

Chemistry: Dye-terminator Big Dye; 100% of reads

Assembly program: Phrap; version 0.960731

Consensus quality: 174578 bases at least Q40

Consensus quality: 179739 bases at least Q30

Consensus quality: 182173 bases at least Q20

Insert size: 188000; agarose-fp

Insert size: 185347; sum-of-contigs

Quality coverage: 4.6 in Q20 bases; agarose-fp

Quality coverage: 4.7 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently
* consists of 15 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

* 1 26748: contig of 26748 bp in length
* 26749 26848: gap of 100 bp
* 26849 28315: contig of 1467 bp in length
* 28316 28415: gap of 100 bp
* 28416 30899: contig of 2484 bp in length
* 30900 30999: gap of 100 bp
* 31000 34327: contig of 3328 bp in length
* 34328 34427: gap of 100 bp
* 34428 39283: contig of 4856 bp in length
* 39284 39383: gap of 100 bp
* 39384 44613: contig of 5230 bp in length
* 44614 44713: gap of 100 bp
* 44714 78567: contig of 33854 bp in length
* 78568 78667: gap of 100 bp
* 78668 89039: contig of 10372 bp in length
* 89040 89139: gap of 100 bp
* 89140 97713: contig of 8574 bp in length
* 97714 97813: gap of 100 bp
* 97814 110219: contig of 12406 bp in length
* 110220 110319: gap of 100 bp
* 110320 123656: contig of 13337 bp in length
* 123657 123756: gap of 100 bp
* 123757 138462: contig of 14706 bp in length
* 138463 138562: gap of 100 bp
* 138563 153566: contig of 15004 bp in length
* 153567 153666: gap of 100 bp
* 153667 180503: contig of 26837 bp in length
* 180504 180604: gap of 100 bp
* 180604 186747: contig of 6144 bp in length.

FEATURES
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/organism="Homo sapiens"
/mol_type="genomic DNA"
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ORIGIN

Query Match 39.5%; Score 157.8; DB 12; Length 186747;
Best Local Similarity 75.8%; Pred.No.7.6e-43;
Matches 207; Conservative 1; Mismatches 63; Indels 2; Gaps 1;
81 ATGCTGTAATCCAGCACTTCGGAGAGCGCAGAGTGGCGGATCACCCTAGATCAAGAGA 140
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Db 69948 AGCGCTGTAATCCAGCACTTGGAGGCGAAGTGCGGAGATCNC--GAGGTCAAGGA 70005
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Db 70006 TCGAGACCATCTGGCCCAACATGTTGAAACCCCGTCTTACTTAAATAACAAAAATAGC 70065
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Qy 261 TGAATTCGACAGTGTAGCCGAATATCATCATCAGATGAGTGTAGACACCCGCTCT 320
Db 70126 CTGTAACCTGGAGCGGAGGTGTGACATCTCAGCTGTGTACAGAGAGACTCCGCT 70185
Qy 321 CAAAAACAACAACAAAAACAAAAACCATTA 353
Db 70186 CAAAAACAAAAACAAAAACAAAAACAAAAA 70218

RESULT 19
AC007495 198575 bp DNA linear PRI 22-MAR-2003
DEFINITION Homo sapiens chromosome 16 clone RP11-355E10, complete sequence.
ACCESSION AC007495
VERSION AC007495.9 GI:29150335
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1 (bases 1 to 198575)
AUTHORS DOE Joint Genome Institute, Stanford Human Genome Center and Los
Alamos National Laboratory.
TITLE Direct Submission
JOURNAL Unpublished
2 (bases 1 to 198575)
AUTHORS Bruce, D., Mundt, M., Doggett, N., Munk, C., Saunders, E., Robinson, D.,
Jones, M., Buckingham, J., Chasteen, L., Thompson, S., Goodwin, L.,
Bryant, J., Tesmer, J., Meincke, J., Longmire, J., White, S., Tatam, O.,
Campbell, C., Fawcett, J., Maltbie, M., Buesod, M., Sutherland, R.,
McMurry, K., Han, C. and Deaven, L.
TITLE Direct Submission
JOURNAL Submitted (06-MAY-1999) Center for Human Genome Studies, DOE Joint
Genome Institute, Los Alamos National Laboratory, MS M888, Los
Alamos, NM 87545, USA
3 (bases 1 to 198575)
AUTHORS DOE Joint Genome Institute.
TITLE Direct Submission
JOURNAL Submitted (06-FEB-2002) Production Sequencing Facility, DOE Joint
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
4 (bases 1 to 198575)
AUTHORS DOE Joint Genome Institute.
TITLE Direct Submission
JOURNAL Submitted (23-DEC-2002) Production Sequencing Facility, DOE Joint
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
5 (bases 1 to 198575)
AUTHORS DOE Joint Genome Institute, Stanford Human Genome Center and Los
Alamos National Laboratory.
TITLE Direct Submission
JOURNAL Submitted (22-MAR-2003) DOE Joint Genome Institute, 2800 Mitchell
Drive, Walnut Creek, CA 94598, USA
On Mar 22, 2003 this sequence version replaced gi:27363205.
Draft Sequence Produced by DOE Joint Genome Institute
www.jgi.doe.gov
Finishing Completed at Stanford Human Genome Center and Los Alamos
National Laboratory
www.sngc.stanford.edu
Quality: Phrap Quality >=40 100% of Sequence;
Estimated Total Number of Errors is 0.
NOTE: BACTERIAL TRANSPOSON excised at 8530.
Location/Qualifiers
1. 198575

FEATURES
SOURCE

ORIGIN

Query Match 39.5%; Score 157.8; DB 5; Length 198575;
Best Local Similarity 75.8%; Pred. No. 7.9e-43;
Matches 207; Conservative 1; Mismatches 63; Indels 2; Gaps 1;

/organism="Homo sapiens"
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Qy 81 ATGCTGTAATCCAGCACTTGGAGGCGAAGTGCGGAGATTCAGCTGAGTCAAGGA 140
Db 108130 AGCGCTGTAATCCAGCACTTGGAGGCGAAGTGCGGAGATTCAGCTGAGTCAAGGA 108187
Qy 141 TCGAGACCATCTGGCCCAACATGTTGAAACCCCGTCTTACTTAAATAACAAAAATAGC 200
Db 108188 TCGAGACCATCTGGCCCAACATGTTGAAACCCCGTCTTACTTAAATAACAAAAATAGC 108247
Qy 201 TGGGATGATGTCAGACACCTGTAGTCCAGCTACTCAGAGCCGAGATTGCGTAGC 260
Db 108248 CGGGCGTGTGTGGCTGGACCTGTATCCAGCTACTTGGAGTCTGAGGCGAGATATCG 108307
Qy 261 TGAATTCGACAGTGTAGCCGAATATCATCATCAGATGAGTGTAGACACCCGCTCT 320
Db 108308 CTGTAACCTGGAGCGGAGGTGTGACATCTCAGCTGTGTACAGAGAGACTCCGCT 108367
Qy 321 CAAAAACAACAACAAAAACAAAAACCATTA 353
Db 108368 CAAAAACAAAAACAAAAACAAAAACAAAAA 108400

REFERENCE 20
AUTHORS

LOCUS
DEFINITION Human DNA sequence from clone RP13-444X19 on chromosome X containing
a mitochondrial ribosomal protein S18C (MRPS18C) pseudogene, the 3'
end of the gene for a novel protein similar to PHD finger protein 2
PHF2 and a CpG island, complete sequence.
AL732374
AL732374.14 GI:23476649
HTG: CpG island; MRPS18C; PHF2.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1 (bases 1 to 224187)
AUTHORS Chapman, J.
TITLE Direct Submission
JOURNAL Submitted (13-MAY-2005) Wellcome Trust Sanger Institute, Hinxton,
Cambridgeshire, CB10 1SA, UK. E-mail enquiries: vegas@sanger.ac.uk
Clone request: clonerequest@sanger.ac.uk
On Oct 2 2002 this sequence version replaced gi:23393869.
The following abbreviations are used to associate primary accession
numbers given in the feature table with their source databases:
Em: EMBL, Sw: SWISSPROT, Tr: TREMBL, Wp: WORMPEP, Information
on the WORMPEP database can be found at
http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence
was generated from part of bacterial clone contigs of human
chromosome X, constructed by the Sanger Centre Chromosome X Mapping
Group. Further information can be found at
http://www.sanger.ac.uk/ChX
RP13-444X19 is from the library RP13-2 constructed by the group
of Pieter de Jong. For further details see
http://www.chori.org/bacpac/home.htm
VECTOR: pBACE3.6

----- Genome Center
Center: Wellcome Trust Sanger Institute
Center code: SC
Web site: http://www.sanger.ac.uk
Contact: vegas@sanger.ac.uk

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Best Local Similarity 71.6%; Pred. No. 8.6e-43;
Matches 222; Conservative 1; Mismatches 80; Indels 7; Gaps 1;

Q1  81  ATGCGTGTATCCGACGACCTTGGGAGGCGAAGTGGGCGGATGACCTGAGGTCAAGAGA 140
D1  161709  ACGCTGTATGCCAGGACTTTGGGAGGCGAAGCGGGAGGATCATCTGAGGTGAGAGT 161650
Q2  141  TCGAGACCATCTGCGCCCAACATGTTGAAACCCCGTCTTACTATAAAATACAAAATATGC 200
D2  161649  TCGAGACCAAGCTGCGCCCAACATGTTGAAACCCCGTCTTACTATAAAATACAAAATATAGC 161590
Q3  201  TGGGCGATGATGGGACACACCTGTAGTCCGACGTAACAAGAG-----CCGAGATTGC 253
D3  161589  GGGGCGATGATGGGCGGACCTGTAGTCCGACGTAACAAGAGCTGAGGAGACTGAGCCAGGAGATTG 161530
Q4  254  AGTGAAGTGAAGTGCAGAGTGCAGCCGAATCAAGATCAAGAGTGCAGAGTGCAGAGTGC 313
D4  161529  CTTGACCCCGGAGGAGGTTGCAATGAGCCGAGATGTAACACATGCAATGCAAGAGAC 161470
Q5  314  KCCGCTTCAAAACACACACAAAACAAAACAAACATTAACATTCCTTCGCGGTT 373
D5  161469  TCCGCTTCAAAACAAAACAAAACAAAACAAAGATTAAGAGACCAATAGGGGAT 161410
Q6  374  CCCGAGACTAT 383
D6  161409  CTCAGCGCAAT 161400

RESULT 22
AC069513 174097 bp DNA linear PRI 15-MAR-2003
LOCUS Homo sapiens 3 BAC RP11-171N2 (Roswell Park Cancer Institute Human
DEFINITION BAC Library) complete sequence.
ACCESSION AC069513
VERSION AC069513.28 GI:25815276
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
          Homnidae; Homo.
          1 (bases 1 to 174097)
Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-osman,F.R., Allen,C.,
Alsbrooks,S.L., Amaralunge,H.C., Are,J.R., Ayele,M., Banks,T.,
Bardaria,J., Benton,J., Blinage,K., Blankenburg,K., Bonnin,D.,
Bouck,J., Bowls,S., Bileva,M., Brown,E., Brown,M., Bryant,N.P.,
Buhay,C., Burch,P., Burkett,C., Burrell,K.L., Byrd,N.C.,
Carron,T.F., Carter,M., Cavazos,S.R., Chacko,J., Chavez,D.,
Chen,G., Chen,R., Chen,Z., Chowdhry,I., Christopoulos,C.,
Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R.,
Dayila,M.L., Davis,C., Davy-Carroll,L., Dederich,D.A.,
DeJanelo,K.R., Delgado,O., Denn,A.L., Ding,Y., Dinh,H.H.,
Douthwaite,K.J., Draper,H., Dugan-Rocha,S., Durbin,K.J.,
Eamhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Escoto,M.,
Falls,T., Ferraguto,D., Flisgy,N., Ford,J., Foster,P., Frantz,P.,
Gabisi,A., Gao,J., Garcia,A., Garner,T., Garza,N., Gill,R.,
Gorrell,J.H., Guevara,W., Gunaratne,P., Hale,S., Hamilton,K.,
Harris,C., Harris,K., Hart,M., Havlak,P., Hawes,A., He,X.,
Hernandez,J., Hernandez,O., Hodgson,A., Hodgeson,M., Holloway,C.,
Hollins,B., Homs,F., Howard,S., Huber,J., Hulik,S., Hume,J.,

```

```

TITLE
JOURNAL
REFERENCE
AUTHORS
MORLEY,K.C.
Direct Submission
Submitted (02-JUN-2000) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 174097)
Worley,K.C.
Direct Submission
Submitted (28-SEP-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
4 (bases 1 to 174097)
Worley,K.C.
Direct Submission
Submitted (15-MAR-2003) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
5 (bases 1 to 174097)
Worley,K.C.
Direct Submission
Submitted (15-MAR-2003) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
On Nov 28, 2002 this sequence version replaced gi:23343662.
INFORMATION: http://www.hgsc.bcm.tmc.edu/ or email
gc-help@bcm.tmc.edu

COMMENT
JOURNAL
AUTHORS
TITLE
JOURNAL
REFERENCE
AUTHORS
MORLEY,K.C.
Direct Submission
Submitted (15-MAR-2003) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
5 (bases 1 to 174097)
Worley,K.C.
Direct Submission
Submitted (15-MAR-2003) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
On Nov 28, 2002 this sequence version replaced gi:23343662.
INFORMATION: http://www.hgsc.bcm.tmc.edu/ or email
gc-help@bcm.tmc.edu

```

CLONE LENGTH: This sequence does not necessarily represent the entire insert of this clone. Overlapping regions of clones are only sequenced and submitted once, so the sequence for the remainder of the insert may be found in the record for the adjacent clones. Overlapping clones are noted at the beginning and end of the features listing.

ANNOTATION OF FEATURES:

STSs are identified using ePCR (Genome Res. 7:541-550) searches of a local database that includes entries from dbSTS, GDB, and local mapping efforts.

Repeats are identified using RepeatMasker (A. Smit and P. Green, unpublished.) for Human and Mouse sequences.

Genes and Region of sequence similarity are identified by BLAST (Nuc. Acids Res. 25:3389-3402) similarity (expect < 1e-34) to the EST and cDNA sequences. Genes demonstrate at least two exons flanked by consensus splice sites that maintained sequence continuity across the splice junctions. Sequences that are not identical matches are annotated as similar.

Jackson,L.E., Jacobson,B., Jia,Y., Johnson,R., Jolivet,S., Joudah,S., Karlsson,E., Kelly,S., Khan,U., King,L., Koryak,J., Kovar,C., Kratovic,J., Kureshi,A., Landry,N., Leal,B., Lewis,L.C., Lewis,L., Li,J., Li,Z., Licharge,O., Lieu,C., Liu,J., Liu,W., Louieged,H., Lozano,R.J., Lu,X., Lucier,A., Lucier,R., Luna,R., Ma,J., Maheshwari,M., Mapa,P., Martin,R., Martindale,A., Martinez,E., Massey,E., Mawhney,E., McLeod,M.P., Meador,M., Mel,G., Metzker,M., Miner,G., Miner,Z., Mitchell,T., Mohabak,K., Moore,S., Morgan,J., Moorish,T., Morris,S., Moser,M., Neal,D., Nelson,D., Newton,M., Newton,N., Nguyen,A., Nguyen,N., Nguyen,N., Nickerson,E., Nwokkwo,S., Ogundimu,G., Orsanye,N., Oyedero,R., Pace,A., Payton,B., Peery,J., Perez,L., Peters,L., Pickens,R., Primus,E., Pu,L., Quiles,M., Ren,Y., Rives,M., Rojas,A., Rojibokan,I., Rolfe,M., Ruiz,S., Savary,G., Scherer,S., Scott,G., Shen,H., Shooshari,N., Sisson,I., Sodergren,E., Sonalke,T., Sparks,A., Stanley,H., Stone,H., Sutton,A., Svatek,A., Taber,P., Tamerisa,A., Tamerisa,K., Tang,H., Tansey,J., Taylor,C., Taylor,T., Telifod,B., Thomas,N., Thomas,S., Usmani,K., Vasquez,L., Vera,Y., Villalón,D., Vinsom,R., Wang,Q., Wang,S., Ward-Moore,S., Warren,R., Washington,C., Watlington,S., Williams,G., Williamson,A., Wleczek,R., Wooden,S., Worley,K., Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Zorrilla,S., Naylor,S.L., Weinstein,G. and Gibbs,R.

SEQUENCING READ COVERAGE: Sequencing is completed to a minimum standard of double strand coverage with a minimum of 2 clones and 2 reads with no ambiguities or 2 chemistries with a minimum of 2 clones and 3 reads with no ambiguities. If the sequence quality for a region does not meet this standard, it will be indicated in the annotation as Low Coverage.

QUALITY OF INDIVIDUAL BASES: This sequence meets stringent quality standards - estimated error rate less than 1 per 10,000 bases. Reports of lowest quality individual bases and measures of base quality are listed below. Description of the metrics can be found at URL:

<http://www.hgsc.bcm.tmc.edu:8088/quality.info/genbank.annotation.html>.

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Query Match 39.4%; Score 157.4; DB 5; Length 174097;
Best Local Similarity 75.8%; Pred. No. 1e-42;
Matches 207; Conservative 1; Mismatches 62; Indels 3; Gaps 1;

QY 81 ATGCTGTAAATCCAGACACTTCGGAGGCCAAGGTGGCGGATACCTGAGGTCAAGAGA 140
DB 4214 ATGCTGTAAATCCAGACACTTCGGAGGCCAAGGTGGCGGATACCTGAGGTCAAGAGA 4273
QY 141 TCGAGACCATCTCTGCGCAACATGTGTGAACCCCTCTTACTAAAAATACAAAAATAGC 200
DB 4274 TTGAGACACAGCTCTGCGCAACATGTGTGAACCCCTCTTACTAAAAATACAAAAATAGC 4333
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QY 261 TGAGATCGCAGAGAGAGCCGAAATCAGATCAAGAGTG--AGCAGATGAGACKCG 317
DB 4394 CTTGAATCCGAGAGCAGAGATCAATGACTCCAGCTGGGCAACAGATGAGACTGTG 4453
QY 318 TCTCAAAAACAAACAACAAAAAACA 350
DB 4454 TCTCAAAAACAAACAACAAAAAACA 4486

RESULT 23
AC011495 209844 bp DNA linear PRI 14-JUL-2002
LOCUS Homo sapiens chromosome 19 clone CFB-33G10, complete sequence.
AC011495
AC011495.8 GI:21747443
VERSION HTG.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1 (bases 1 to 209844)
DOE Joint Genome Institute and Stanford Human Genome Center.
AUTHORS Direct Submission
TITLE Unpublished
JOURNAL 2 (bases 1 to 209844)
DOE Joint Genome Institute.
AUTHORS Direct Submission
TITLE Submitted (07-OCT-1999) Production Sequencing Facility, DOE Joint
JOURNAL Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
REFERENCE 3 (bases 1 to 209844)
DOE Joint Genome Institute and Stanford Human Genome Center.
AUTHORS

```

TITLE Direct Submission
JOURNAL Submitted (26-NOV-2000) DOE Joint Genome Institute, 2800 Mitchell
REFERENCE 4 (bases 1 to 209844)
AUTHORS DOE Joint Genome Institute and Stanford Human Genome Center.
JOURNAL Direct Submission
TITLE Submitted (23-ANG-2001) DOE Joint Genome Institute, 2800 Mitchell
JOURNAL Drive, Walnut Creek, CA 94598, USA
REFERENCE 5 (bases 1 to 209844)
AUTHORS DOE Joint Genome Institute and Stanford Human Genome Center.
JOURNAL Direct Submission
TITLE Submitted (14-JUL-2002) DOE Joint Genome Institute, 2800 Mitchell
JOURNAL Drive, Walnut Creek, CA 94598, USA
COMMENT On Jul 14, 2002 this sequence version replaced gi:15281207.
Draft Sequence Produced by DOE Joint Genome Institute
www.jgi.doe.gov
www.sngc.stanford.edu
Quality: Phrap Quality >=40 99.9% of Sequence;
Estimated Total Number of Errors is 0.6.
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ORIGIN
Query Match 39.4%; Score 157.4; DB 5; Length 209844;
Best Local Similarity 77.2%; Pred. No. 1.1e-42;
Matches 206; Conservative 1; Mismatches 52; Indels 8; Gaps 1;

QY 81 ATGCTGTATCTCCAGCACTTCGGAGGCGCAAGTGGGCGGATCACTGAGGTCAAGCA 140
DB 153894 ACGCTGTATCTCCAGCACTTCGGAGGCGCAAGTGGGCGGATCACTGAGGTCAAGCA 153953
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DB 154014 TGGGATGATGGCGGCTACTTATCTCCAGTACTCGGAGGCGGAGGTTGCGGTGAGC 154073
QY 261 TGAAGTCCAGAGTGGCGGAAATCAAGATCAAGAGTGGAGTGAAGCKCCGCTCT 320
DB 154074 CGAGATCG-----TGCATTGCAACCCAGCTGGGCAACAGAGCGAACTCTGTCT 154125
QY 321 CAAAACACAAACAAAAAAGAAAAA 347
DB 154126 CAAAACAAAAAAGAAAAAAGAAA 154152

RESULT 24
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LOCUS Homo sapiens chromosome 2 clone RP11-507P19, WORKING DRAFT
DEFINITION AC074388
AC074388
AC074388.2 GI:9690406
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo (173556)
1 (bases 1 to 173556)
REFERENCE 1
AUTHORS Waterston,R.H.
TITLE The sequence of Homo sapiens clone
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 173556)
AUTHORS Waterston,R.H.

TITLE Direct Submission
JOURNAL Submitted (30-JUL-2000) Genome Sequencing Center, Washington
REFERENCE MO 63108, USA
AUTHORS University School of Medicine, 444 Forest Park Parkway, St. Louis,
JOURNAL On Aug 4, 2000 this sequence version replaced gi:9587428.
COMMENT
----- Genome Center -----
Center: Washington University Genome Sequencing Center
Center code: MUGSC
Web site: http://genome.wustl.edu/gsc/index.shtml
Project Information
Center project name: H.NH0507P19
----- Summary Statistics -----
Sequencing vector: M13; 100%
Chemistry: Dye-primer ET; 100% of reads
Chemistry: Dye-terminator Big Dye; 0% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 158826 bases at least Q40
Consensus quality: 16318 bases at least Q30
Consensus quality: 165604 bases at least Q20
Insert size: 16600; agarose-fp
Insert size: 171556; sum-of-contigs
Quality coverage: 4.60 in Q20 bases; sum-of-contigs
Quality coverage: 4.61 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently
* consists of 21 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence,
* as soon as it is available and the accession number will
* be preserved.
1 2144: contig of 2144 bp in length
* 2145 2244: gap of unknown length
* 2245 4052: contig of 1808 bp in length
* 4053 4152: gap of unknown length
* 4153 6306: contig of 2154 bp in length
* 6307 6406: gap of unknown length
* 6407 8444: contig of 2038 bp in length
* 8445 8544: gap of unknown length
* 8545 11626: contig of 3082 bp in length
* 11627 11726: gap of unknown length
* 11727 15823: contig of 4097 bp in length
* 15824 15923: gap of unknown length
* 15924 20350: contig of 4427 bp in length
* 20351 20450: gap of unknown length
* 20451 25976: contig of 5526 bp in length
* 25977 26076: gap of unknown length
* 26077 31313: contig of 5237 bp in length
* 31314 31413: gap of unknown length
* 31414 38673: contig of 7260 bp in length
* 38674 38773: gap of unknown length
* 38774 45342: contig of 6569 bp in length
* 45343 45442: gap of unknown length
* 45443 53428: contig of 7986 bp in length
* 53429 53528: gap of unknown length
* 53529 60068: contig of 6540 bp in length
* 60069 60168: gap of unknown length
* 60169 68196: contig of 8028 bp in length
* 68197 68296: gap of unknown length
* 68297 76092: contig of 7795 bp in length
* 76093 76191: gap of unknown length
* 76192 87826: contig of 11635 bp in length
* 87827 87926: gap of unknown length
* 87927 99071: contig of 11145 bp in length
* 99072 99171: gap of unknown length
* 99172 115184: contig of 16013 bp in length
* 115185 115284: gap of unknown length
* 115285 132703: contig of 17419 bp in length
* 132704 132803: gap of unknown length
* 132804 154064: contig of 21261 bp in length

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FEATURES             * 154065 154164: gap of unknown length
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38774. 45342
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68297. 76091
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ORIGIN

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Matches 209; Conservative 1; Mismatches 69; Indels 1; Gaps 1;

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QY      81  ATGCTGTAAATCCAGCACTCGGAGGCGAAGTGGCGGATCAGCTGAGGTCAAGGA 140
DB      1615 AGGCTGTAAATCCAGCACTTGGGAGGCCAAGTGGCGGATCAGCTGAGGTCAAGGA 1674
QY      141  TCGAGACCATCTGCGCAACATGTGTAAACCCCTCTTACTTAAATAACAAATAATAGC 200
DB      1675 TCGAGACCATCTGCGCAACATGTGTAAACCCCTCTTACTTAAATAACAAATAATAGC 1734
QY      201  TGGGCATGTGTGACACACCTCTGTAGTCCCACTACTCAGAGCGCGAGATTGCACTGAGC 260
DB      1735 CAGGATGTGTGACACACCTCTGTAGTCCCACTACTCAGAGCGCGAGATTGCACTGAGC 1794
QY      261  TGAGATCGACAGATGAGCGCCGAATTCACAGATCAGAGATGAG-CAGAGTGAAGCGCTC 319
DB      1795 CTTGAACCCGAGAGCGGAGGTTGCATTAAGCCAGATGAGCGCACTCGAGACTCTGTC 1854
QY      320  TCAAAAACACACAAAAAACAATAAATCCATAAGACTT 359
DB      1855 TCAAAAACACACAAAAAACAATAAATCCATAAAGGCACT 1894

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RESULT 25
AL162739/c
LOCUS
DEFINITION
Human DNA sequence from clone Rp5-1155K23 on chromosome 1p31.3-32.3
Contains a Down syndrome critical region gene 5 (DSCR5) pseudogene,
a ribosomal protein S15a (RPS15A) pseudogene, a novel gene
(FUJ1084), a ribosomal protein L36 (RPL36) pseudogene and the 3'
end of a novel gene, complete sequence.
ACCESSION
AL162739
VERSION
AL162739.24 GI:21211651
KEYWORDS
HMG; DSCR5; FUJ1084; RPL36; RPS15A.
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
1 (bases 1 to 84001)
REFERENCE
White,S.
Direct Submission
Submitted (13-MAY-2005) Wellcome Trust Sanger Institute, Hinxton,
Cambridgeshire, CB10 1SA, UK. E-mail enquiries: vegas@sanger.ac.uk
Clone requests: clonerequests@sanger.ac.uk
On May 25, 2002 this sequence version replaced GI:16973818.
The following abbreviations are used to associate primary accession

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Em:BE825977.1
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complement(AL139343..9:30881..30966),
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complement(AL139343..9:17619..17837),
complement(AL139343..9:16064..16151),
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 Best Local Similarity 77.4%; Pred. No. 1e-42;
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DB 57483 AAAAAAAAAAAAAAAAAAAGATTAATAC 57459

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RESULT 26
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 AC025599.8 GI:18464214
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 SOURCE Homo sapiens (human)
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 Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 REFERENCE 1 (bases 1 to 158330)
 AUTHORS Birren,B., Linton,L., Nusbaum,C. and Lander,B.
 TITLE Homo sapiens chromosome 8, clone RP11-508K19

JOURNAL
REFERENCE
AUTHORS

Unpublished
 2 (bases 1 to 158330)
 Birren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N.,
 Anderson,S., Baldwin,J., Barna,N., Bastien,V., Beda,F.,
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 O'Neill,D., Oliver,T.M., Oliver,J., Peterson,K., Pierre,N.,
 Pisanl,C., Pollara,V., Raymond,C., Riley,R., Rogov,P., Rothman,D.,
 Roy,A., Santos,R., Schauer,S., Severy,P., Spencer,B.,
 Stange-Thomann,N., Stojanovic,N., Subramanian,A., Talamas,J.,
 Teefaye,S., Theodore,J., Tittell,A., Travers,M., Triggillo,J.,
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 Young,G., Zainoun,J., Zimmer,A. and Zody,M.
 Direct Submission
 Submitted (12-MAR-2000) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 3 (bases 1 to 158330)
 Birren,B., Linton,L., Nusbaum,C., Lander,E., Ali,A., Allen,N.,
 Anderson,S., Barna,N., Bastien,V., Boguslavsky,L., Boukhgalter,B.,
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 Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
 Direct Submission
 Submitted (01-FEB-2002) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 On Feb 1, 2002 this sequence version replaced gi:18072197.
 All repeats were identified using RepeatMasker:
 Smit, A.P.A. & Green, P. (1996-1997)
 http://ftp.genome.washington.edu/RM/RepeatMasker.html

TITLE
JOURNAL
COMMENT

Genome Center
 Center: Whitehead Institute/ MIT Center for Genome Research
 Center code: WIRB
 Web site: http://www-seq.wi.mit.edu
 Contact: sequence_submissions@genome.wi.mit.edu
 Project Information
 Center project name: L5714
 Center clone name: 508_K_19

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Db 71945	AGCCCTGGCCAGGCGCGTACTCATGCTGTATATCCAGACATTGGAGCGTGAAGCGG	171445	39.2%	156.8	DB 5	158330	0	0
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VERSION AC068995.10 GI:11995516
KEYWORDS HTG; HTGS PHASE1; HTGS_DRAFT.
SOURCE
ORGANISM Homo sapiens (human)

REFERENCE
AUTHORS
Munoz D.M., Adams C., Adio-Oduola B., Ali-ouman, F.R., Allen C., Albrooks S.L., Amaralunge H.C., Are J.R., Banks T., Barbarta J., Benton J., Blum K., Blankenburg K., Bonin D., Bouck J., Bowe S., Brileva M., Brown E., Brown N.P., Bryant N.P., Bulay C., Burch P., Burkett C., Burrell K.L., Byrd N.C., Caron T.F., Carter M., Cavazos S.R., Chacko J., Chavez D., Chen G., Chen R., Chen Z., Chowdhry I., Christopoulos C., Cleveland C.D., Cox C., Coyle M.D., Dathorne S.R., David R., Davila M.L., Davis C., Day-Carroll L., Dederich D.A., Delaney K.R., Delgado O., Denn A.L., Ding Y., Dinh H.H., Douthwaite K.J., Draper H., Dugan-Rocha S., Durbin K.J., Earhart C., Edgar D., Edwards C.C., Elhaj C., Escoto M., Falle T., Ferraguto D., Flagg N., Ford J., Foster P., Frantz P., Gabisi A., Gao J., Garcia A., Garner T., Garza N., Gill R., Gorrell J.H., Guevara M., Gunaratne P., Hale S., Hamilton K., Harris C., Harris K., Hart M., Haylak P., Hawes A., Hernandez J., Hernandez O., Hodgson A., Hoques M., Hollway C., Hollins B., Homat F., Howard S., Huber J., Hulyk S., Hume J., Jackson L.E., Jacobson B., Jia Y., Johnson R., Jolivet S., Joudah S., Karlsson E., Kelly S., Khan U., King L., Korvah J., Kovar C., Kralovic J., Kureshi A., Landry N., Leal B., Lewis L.C., Lewis L., Li J., Li Z., Litcharge O., Lieu C., Liu J., Liu W., Lousheed H., Lozano R.J., Lu X., Lucier A., Lucier R., Luna R., Ma J., Maheshwari M., Mapa P., Martin R., Martindale A., Martinez E., Massey E., Mathney E., McLeod M.P., Meador M., Mei G., Metzger M., Miner G., Miner Z., Mitchell T., Mohabbat K., Morgan M., Morris S., Moser M., Neal D., Newton J., Newton N., Nguyen A., Nguyen N., Nguyen N., Nickerson E., Nwokenwo S., Ogih M., Okunou G., Oragunye N., Oviedo R., Pace A., Payton B., Perry J., Perez L., Peters L., Pickens R., Primus E., Pull L., Qules M., Ren Y., Rivas M., Rojas A., Rojibokan I., Rolle M., Ruiz S., Savery G., Scherer S., Scott G., Shen H., Shoohtari N., Stason I., Sodergren E., Sonake T., Sparks A., Stanley H., Stone H., Sutton A., Sytek A., Taber P., Tamerias A., Tamerisa K., Tang H., Taney J., Taylor C., Taylor T., Telford B., Thomas N., Thomas S., Usmami K., Vasquez L., Vera V., Villalón D., Vinson R., Wall R., Wang S., Ward-Moore S., Warren R., Washington C., Wallington S., Williams G., Williamson A., Wlezyk R., Woodan S., Worley K., Wu C., Wu Y., Wu Y.F., Zhou J., Zorrilla S., Nelson D. and Gibbs R.

1 (bases 1 to 195070)
2 (bases 1 to 195070)
Unpublished
Direct Submission
Submitted (16-MAY-2000) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
On Dec 29, 2000 this sequence version replaced gi:11024742.
----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: <http://www.hgsc.bcm.tmc.edu/>
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: HBH
Center clone name: RP11-463G10
----- Summary Statistics
Sequencing vector: M13, L08821
Assembly program: Phrap, version 0.990329
Consensus quality: 16018 bases at least Q40
Consensus quality: 177694 bases at least Q30
Consensus quality: 184433 bases at least Q20
Estimated insert size: 185987; sum-of-contigs estimation
Quality coverage: 0x in Q20 bases; agarose-1p estimation

FEATURES

Quality coverage: 3.4x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 23 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be presequenced.
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32736: gap of unknown length
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162104: contig of 6558 bp in length
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OY 118 GCGGATCACTGAGGTCAAGAGATGAGACCATCTGCGCAACATGTTGAAACCCGCT 177
    |||||
DB 2433 GTGATCACTGATCAAGAGTTCAAGCCAGCTTGGCAACATGCAAAACCCGCT 2374
    |||||
OY 178 TTACTTAAATATCAAAAAATAGCTGGCATGTGGCAACACCTTACTCCAGTACTC 237
    |||||
DB 2373 CTACTTAAATATCAAAAACTAGCCAGCTTTGTGGCAGGCACCTTAAATCCAGTTACC 2314
    |||||
OY 228 AGGAGCCGAGATTCAGTGAAGTGAATCGCAGAGTGAGCCGAATACAGATACAGA 297
    |||||
DB 2313 AGGAGGCTGAGCGAGGAGAAATTACAGTGCAGGATGCACTAGACTCCAGCTCG 2254
    |||||
OY 298 GTGAGCAGAGTGAGACCCGCTCAAAAAACAACAACAAAAACAACAAAAA 347
    |||||
DB 2253 GGCACACAGATGAGACTCGTCTCAAAAAATAAAAAATATAATAA 2204
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RESULT 28
 AL353145/c 111372 bp DNA linear HTG 10-JUL-2001
 LOCUS Homo sapiens chromosome 1 clone RP4-633K13 map p34.3-36.11, 9
 DEFINITION unordered pieces.
 ACCESSION AL353145.4 GI:9796994
 VERSION HTG; HTGS_PHASE1; HTGS_CANCELLED.
 KEYWORDS Homo sapiens (human)
 SOURCE Homo sapiens
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE

Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.
 1
 McJay, K.
 Direct Submission
 Submitted (09-JUL-2001) Sanger Centre, Hinxton, Cambridgeshire,
 CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk
 requests: clonerequest@sanger.ac.uk
 On Aug 12, 2000 this sequence version replaced gi:9213061.

 Genome Center
 Center: Sanger Centre
 Center code: SC
 Web site: http://www.sanger.ac.uk
 Contact: humquery@sanger.ac.uk

 Project Information
 Center project name: d0633K13

 Summary Statistics
 Assembly program: XGAP4; version 4.5
 Sequencing vector: plasmid; 108752; 100% of reads
 Chemistry: Dye-terminator ABI; 1% of reads
 Chemistry: Dye-terminator Big Dye; 74% of reads
 Chemistry: Dye-terminator ET-amersham; 24% of reads
 Consensus quality: 107404 bases at least Q40
 Consensus quality: 106616 bases at least Q20
 Insert size: 110572; sum-of-contigs
 Insert size: 124958; 7.7% error; agrose-fp
 Quality coverage: 3.70x in Q20 bases; sum-of-contigs Quality
 coverage: 3.47x in Q20 bases; agrose-fp

COMMENT

* NOTE: This is a 'working draft' sequence. It currently
 * consists of 9 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.

```

1 3034: contig of 3034 bp in length
* 3035 3134: gap of 100 bp
* 3135 12408: contig of 9274 bp in length
* 12409 12508: gap of 100 bp
* 12509 31917: contig of 19409 bp in length
* 31918 32017: gap of 100 bp
* 32018 49801: contig of 17784 bp in length
* 49802 49902: gap of 100 bp
* 49903 75093: contig of 25192 bp in length
* 75094 75194: gap of 100 bp
* 75194 80482: contig of 5289 bp in length
* 80483 80582: gap of 100 bp
* 80583 93069: contig of 12487 bp in length
* 93070 93169: gap of 100 bp
* 93170 105801: contig of 12632 bp in length
* 105802 105901: gap of 100 bp
* 105902 111372: contig of 5471 bp in length.

```

FEATURES

source

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1. 111372
  /organism="Homo sapiens"
  /mol_type="genomic DNA"
  /db_xref="taxon:9606"
  /chromosome="1"
  /map="p34.3-36.11"
  /clone="RP4-633K13"
  /clone_lib="RPCT-4"
  1..3034
  /note="assembly_fragment:00063
  fragment_chain:1"
  3135..12408
  /note="assembly_fragment:01010
  fragment_chain:1"
  12509..31917
  /note="assembly_fragment:01234
  fragment_chain:1"

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misc_feature

misc_feature

misc_feature

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misc_feature      32018..49801
                  /note="assembly_fragment:00425
                  fragment_chain:2"
misc_feature      49902..75093
                  /note="assembly_fragment:01051
                  fragment_chain:2"
misc_feature      75194..80482
                  /note="assembly_fragment:01372
                  fragment_chain:3"
misc_feature      80583..93069
                  /note="assembly_fragment:00629
                  fragment_chain:3"
misc_feature      93170..105801
                  /note="assembly_fragment:00500"
                  /note="assembly_fragment:00583"
ORIGIN
Query Match      39.2% Score 156.6; DB 12; Length 111372;
Best Local Similarity 71.1%; Pred.No.1.6e-42;
Matches 207; Conservative 0; Mismatches 84; Indels 0; Gaps 0;
QY      81 ATGCTGTATATCCAGCACTTGGAGGCGCAAGTGGCGGATCACTGAGTCAAGAGA 140
DB      104784 ATGCTGTATATCCAGCACTTGGAGGCGTGAAGGAGGTGAGTCACTGAGTCAAGAGT 104725
QY      141 TCGAGACCATCTGGCCCAACATGTTGAAACCCGCTTTTACTTAAATAACAAAAATAGC 200
DB      104724 TTGAGACCAAGCTGGCCCAACATGTTGAAACCCGCTTTTACTTAAATAACAAAAATAGT 104665
QY      201 TGGGATGATGTCGACACACACTGTACTCCAGCTACTCAGAGACCGGAGATTTGCAATGAC 260
DB      104664 CGGGATGATGTCGACAGCCCTGTATCTCAGCTACTCGGAGGCTGAGGTGGAATAATG 104605
QY      261 TGAGATCCAGAGTGGCCCAATATCAAGATCAAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 320
DB      104604 CTTGATCCAGAGTGGCCCAATATCAAGATCAAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 104545
QY      321 CAAAAACAACAACAAAAACAAAAACCAATAGACATTTGTCATCTGCGG 371
DB      104544 AATATCAAAAAACAAAAACAAAAACCAATATATTTAGAAATTAAGCTGTGG 104494
RESULT 29
AC022252 Homo sapiens clone RPI1-28012, WORKING DRAFT SEQUENCE, 28 unordered
LOCUS      AC022252
DEFINITION Homo sapiens clone RPI1-28012, WORKING DRAFT SEQUENCE, 28 unordered
places.
AC022252
VERSION      AC022252.2 GI:7249106
KEYWORDS      HTG; HTGS_PHASE1; HTGS_DRAFT.
SOURCE      Homo sapiens (human)
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 150934)
REFERENCE      1 (bases 1 to 150934)
AUTHORS      Bliren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N.,
              Anderson,S., Baldwin,J., Barna,N., Becker,T., Beda,F.,
              Boguslavsky,I., Boukhgalter,B., Brown,A., Burkett,G., Castle,A.,
              Chepel,Y., Colangelo,M., Collins,S., Collymore,A., Cooke,P.,
              DeRellano,K., Dewar,K., Domino,M., Doyle,M., Fennestor,J.,
              Ferreira,P., Fitzhugh,W., Forrest,C., Gage,D., Galagan,J.,
              Gardyna,S., Grant,G., Hagos,B., Heaford,A., Horton,L.,
              Howland,J.C., Johnson,R., Jones,C., Kam,L., Karatas,A., Klein,J.,
              Landers,T., Lehoczy,J., Levine,R., Lieu,C., Liu,G., Locke,K.,
              MacDonald,P., Marquis,N., McEwan,P., McGuirk,A., McKernan,K.,
              McShee,R., Meldrim,J., Menus,J., Morrow,J., Naylor,J.,
              Norman,C.H., O'Connor,T., O'Donnell,P., Olivar,T.M., Peterson,K.,

```

```

TITLE
JOURNAL
COMMENT
Submitted (27-JUN-2000) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Mar 16, 2000 this sequence version replaced gi:6778512.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html
----- Genome Center
Center: Whitehead Institute / MIT Center for Genome Research
Center code: WIBR
Web site: http://www-seq.wi.mit.edu
Contact: sequence.submissions@genome.wi.mit.edu
----- Project Information
Center project name: L4795
Center clone name: 28_012
----- Summary Statistics
Sequencing vector: M13; M77815; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.960731
Consensus quality: 132159 bases at least Q40
Consensus quality: 141146 bases at least Q30
Consensus quality: 144793 bases at least Q20
Insert size: 157000; agarose-fp
Insert size: 148234; sum-of-coverage
Quality coverage: 3.1 in Q20 bases; agarose-fp
Quality coverage: 3.2 in Q20 bases; sum-of-coverage
-----
* NOTE: This is a 'working draft' sequence. It currently
* consists of 28 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
*
1      1563: contig of 1563 bp in length
*      1564: gap of 100 bp
*      1664      2811: contig of 1148 bp in length
*      2812      2911: gap of 100 bp
*      2912      4293: contig of 1382 bp in length
*      4294      4393: gap of 100 bp
*      4394      4757: contig of 364 bp in length
*      4758      4857: gap of 100 bp
*      4858      6513: contig of 1656 bp in length
*      6514      6613: gap of 100 bp
*      6614      8468: contig of 1855 bp in length
*      8469      8568: gap of 100 bp
*      8569      10457: contig of 1889 bp in length
*      10458      10557: gap of 100 bp
*      10558      12036: contig of 1479 bp in length
*      12037      12136: gap of 100 bp
*      12137      13936: contig of 1800 bp in length
*      14036      14036: gap of 100 bp
*      14037      16726: contig of 2690 bp in length
*      16727      16826: gap of 100 bp
*      16827      20428: contig of 3602 bp in length
*      20429      20528: gap of 100 bp
*      20529      24488: contig of 3960 bp in length
*      24489      24588: gap of 100 bp
*      24589      28867: contig of 4279 bp in length
*      28868      28967: gap of 100 bp
*      28968      33307: contig of 4340 bp in length
*      33308      33407: gap of 100 bp
*      33408      35317: contig of 1910 bp in length
*      35318      35417: gap of 100 bp
*      35418      35417: contig of 4000 bp in length
*      35419      39517: gap of 100 bp
*      39518      45499: contig of 5982 bp in length

```

```
* 45500 45599: gap of 100 bp
* 45600 50734: contig of 5135 bp in length
* 50735 50835: gap of 100 bp
* 50835 57226: contig of 6392 bp in length
* 57227 57327: gap of 100 bp
* 57327 64154: contig of 6828 bp in length
* 64155 64254: gap of 100 bp
* 64255 69806: contig of 5552 bp in length
* 69807 69906: gap of 100 bp
* 69907 77997: contig of 8090 bp in length
* 77997 78097: gap of 100 bp
* 78097 88132: contig of 10036 bp in length
* 88133 98038: gap of 100 bp
* 98039 98138: contig of 9806 bp in length
* 98139 109294: gap of 100 bp
* 109295 109395: gap of 100 bp
* 109395 123250: contig of 13856 bp in length
* 123251 123351: gap of 100 bp
* 123351 134659: contig of 11309 bp in length
* 134660 134759: gap of 100 bp
* 134760 150934: contig of 16175 bp in length.
FEATURES
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        /mol_type="genomic DNA"
        /db_xref="taxon:9606"
        /clone="RP11-28012"
        /clone_1db="RP11-11 Human Male BAC"
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            1564. .1663
            /estimated_length=100
            1664. .2811
            /note="assembly_fragment"
            2812. .2911
            /estimated_length=100
            2912. .4293
            /note="assembly_fragment"
            4294. .4393
            /estimated_length=100
            4394. .4757
            /note="assembly_fragment
            clone end: r7
            vector_side:right"
            4758. .4857
            /estimated_length=100
            4858. .6513
            /note="assembly_fragment"
            6514. .6613
            /estimated_length=100
            6614. .8468
            /note="assembly_fragment"
            8469. .8568
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            8569. .10457
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            10458. .10557
            /estimated_length=100
            10558. .12036
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            12037. .12136
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            12137. .13936
            /note="assembly_fragment"
            13937. .14036
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            14037. .16726
            /note="assembly_fragment"
            16727. .16826
            /estimated_length=100
            16827. .20428
            /note="assembly_fragment"
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gap 20429. .20528
      /estimated_length=100
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gap 24489. .24588
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misc_feature 24589. .28667
      /note="assembly_fragment"
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misc_feature 28968. .33307
      /note="assembly_fragment"
gap 33308. .33407
      /estimated_length=100
misc_feature 33408. .35317
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      clone_end:SP6
      vector_side:left"
      35318. .35417
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      35418. .39417
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Query Match 39.2%; Score 156.6; DB 12; Length 150934;
Best Local Similarity 73.1%; Pred. No. 1,8e-42;
Matches 201; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

QY 81 ATGCGTGAATCCAGAGACTTCGGAGGCCAAGTGGCCGAGTACCTGAGTCAAGAGA 140
Db 87071 ATGCGTGAATCCAGAGACTTCGGAGGCCAAGGAGCCGAGTACCTGAGTCAAGAGT 87130
QY 141 TCGAGACCATCTCGGCCACATGCTGTAACCCCTCTTTACTAAATAACAAAAATAGC 200
Db 87131 TCAAGACCAAGCTGACCAACATGCTGTAACCCCTCTCTACTAAATAACAAAAATAGC 87190
QY 201 TGGGCATGTGGCACAACACTGTATGTCCTCCAGCTACTAGAGACCGGAGATTGACGTAGC 260
Db 87191 TGGGTGTGTGGCACAAGCCTGTATGTCCTCAGCTACTAGAGAGCTGAGATGGAATCT 87250
QY 261 TGAGATCGAGAGTGAAGCCGAAATCACAGATCACAGAGTGAAGAGTGAAGACKCGCTCT 320
Db 87251 CTTGAACCCGGAGGTGAAGATCTGACTGAGCCGAGACTGCCACTGCATGACAGAGCG 87310
QY 321 CAAAAACACACAAAAACAAAAAACATTAAGA 355
Db 87311 AGACACCATCTCAAAAAAAAAAAAAAAAAAGGA 87345

RESULT 30
AC108040/c 163521 bp DNA linear HTG 30-JAN-2002
LOCUS Homo sapiens chromosome 4 clone RP11-210010, WORKING DRAFT
DEFINITION SEQUENCE, 4 unordered pieces.
ACCESSION AC108040.2 GI:18425316
VERSION HTG; HTGS PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1 (bases 1 to 163521)
AUTHORS Waterston,R.H.
TITLE The sequence of Homo sapiens clone
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 163521)
AUTHORS Waterston,R.H.
TITLE Direct Submission
JOURNAL Submitted (24-JAN-2002) Genome Sequencing Center, Washington
```


University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
On Jan 30, 2002 this sequence version replaced gi:18308830.

----- Genome Center -----
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: <http://genome.wustl.edu/gsc/index.shtml>
Contact: submissions@wustl.wustl.edu
----- Project Information -----
Center project name: H_NH0210010

----- Summary Statistics -----
Sequencing vector: M13; 0%
Sequencing vector: Plasmid; 100%
Chemistry: Dye-terminator Big Dye; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 162304 bases at least Q40
Consensus quality: 162444 bases at least Q30
Consensus quality: 162529 bases at least Q20
Insert size: 189000; agarose-fp
Insert size: 163221; sum-of-ctnigs
Quality coverage: 8.88 in Q20 bases; agarose-fp
Quality coverage: 8.85 in Q20 bases; sum-of-ctnigs

* NOTE: This is a 'working draft' sequence. It currently
* consists of 4 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

1 1564: contig of 1564 bp in length
* 1565 1664: gap of unknown length
* 1665 88984: contig of 87320 bp in length
* 88985 89084: gap of unknown length
* 89085 112702: contig of 23618 bp in length
* 112703 112802: gap of unknown length
* 112803 163521: contig of 50719 bp in length.
Location/Qualifiers

FEATURES
SOURCE
1. 163521
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="4"
/clone="RP11-210010"
1. 1564
/note="assembly_name:Contig25
clone_end:SP6
vector_side:left"
1565. 1664
/estimated_length=unknown
1665. 88984
/note="assembly_name:Contig28
clone_end:T7
vector_side:left"
88985. 89084
/estimated_length=unknown
89085. 112702
/note="assembly_name:Contig26"
112703. 112802
/estimated_length=unknown
112803. 163521
/note="assembly_name:Contig27"

ORIGIN
Query Match 39.2%; Score 156.6; DB 12; Length 163521;
Best Local Similarity 71.4%; Pred. No. 1.9e-42;
Matches 222; Conservative 1; Mismatches 80; Indels 8; Gaps 1;
37 AATATTAATTAAGACATTGTCAGGCCAGGCATGACACTGGCTGAATGCTTAATCCAG 96

Db 98071 AAAAAAAAAAATACAGAGCTGCTGGCTGTATGGCTATGCTTTAATCTTAC 98012
Qy 97 CACTTGGAGAGCCAGAGTGGCGGATCAGCTGAGTCAAGATGAGACCATCTGAC 156
Db 98011 CACTTGGAGAGCCAGAGTGGCGGATCAGCTGAGTCAAGATGAGACCATCTGAC 97952
Qy 157 CAACATGGTGAACCCGCTCTTCTAATAAATATACAAAAATATGCTGGGATGAGGACA 216
Db 97951 CAACATGGTGAACCCGCTCTTCTAATAAATATACAAACATTAGCTGGGCTGGCGG 97892
Qy 217 CACCTGATGCTCCAGCTACTCAGAGCCGAGATTGACGAGTGAAGTCAAGATGA 276
Db 97891 CGCTTGTATCCAGCTACTCAGAGCCGAGATTGACGAGTGAAGTCAAGATGA 97840
Qy 277 GCCAATACAGATTCAGAGTGAAGAGAGTGAAGACCGCTTCACAAACACAA 336
Db 97839 TGCCATTCAGCTTGGCTGGGAGACAAAGAGTGAACCTCATCAAAAAATTAACA 97780
Qy 337 AATCAAAAAA 347
Db 97779 AATTAATACA 97769

RESULT 31
AC114480
LOCUS AC114480 196773 bp DNA linear PRI 29-JAN-2003
DEFINITION Homo sapiens chromosome 3 clone RP11-755B10, complete sequence.
AC114480
VERSION AC114480.2 GI:28014590
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
AUTHORS Kaul,R.K., Olson,M.V., Zhou,Y., James,R.A., Rouse,G., Wu,Z.,
Saenphimachak,C., Buckley,D., Kibukawa,M., Raymond,C. and
Haugen,E.D.
1 (bases 1 to 196773)
2 (bases 1 to 196773)
Direct Submission
Unpublished

TITLE
JOURNAL
REFERENCE
AUTHORS Kaul,R.K., Olson,M.V., Raymond,C. and Haugen,E.D.
Direct Submission
Submitted (09-MAR-2002) Genome Center, University of Washington,
Box 352145, Seattle, WA 98195, USA
3 (bases 1 to 196773)
Kaul,R.K., Olson,M.V., Zhou,Y., James,R.A., Rouse,G., Wu,Z.,
Saenphimachak,C., Buckley,D., Kibukawa,M., Raymond,C. and
Haugen,E.D.
Direct Submission
Submitted (29-JAN-2003) Genome Center, University of Washington,
Box 352145, Seattle, WA 98195, USA
On Jan 29, 2003 this sequence version replaced gi:19310299.

TITLE
JOURNAL
COMMENT
On Jan 29, 2003 this sequence version replaced gi:19310299.

----- Genome Center -----
Center: University of Washington Genome Center
Center Code: UWGC
Web site: <http://www.genome.washington.edu>
Contact: uwgchgs@u.washington.edu
----- Project Information -----
Center project name: chr-3
Center clone name: RP11-755B10 (bc0671)
----- Summary Statistics -----
Sequencing vector: unknown; 3% of reads
Sequencing vector: plasmid; 97% of reads
Chemistry: Dye-terminator Big Dye; 94% of reads
Chemistry: Dye-terminator Big Dye; 6% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 196738 bases at least Q40
Consensus quality: 196773 bases at least Q30
Consensus quality: 196773 bases at least Q20
Insert size: 196773; sum-of-ctnigs

Quality coverage: 8.4x in Q20 bases; sum-of-contigs

Overlapping Sequences:

5: RP11-229A12 (UMGC:bc0315) AC092418, 11308-bp overlap
3: RP11-680P23 (UMGC:bc0527) AC099558, 118740-bp overlap

Sequence Quality Assessment:

This entry has been annotated with sequence quality estimates computed by the Phrap assembly program. All manually edited bases have been reduced to quality zero. Quality levels above 40 are expected to have less than 1 error in 10,000 bp. Base-by-base quality values are not generally visible from the GenBank flat file format but are available as part of this entry's ASN.1 file.

This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., Phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest.

Sequence Validation:

This sequence has been validated by Multiple Complete Digest fingerprinting. Comparison of the experimentally derived digest fragments with sequence-predicted fragments is given below. The electronically-digested sequence consists of both insert and vector, in order to accurately represent the entire circular BAC. Small fragments below a variable cutoff (approximately 400-800 bp) are not resolved in the fingerprint and hence do not appear in the table. There are no significant remaining discrepancies between the experimental and predicted values. Uniquely ordered fragments are separated by dashed lines.

ECORI

HindIII

BglII

SeqDerMap	FingerPrint	SeqDerMap	FingerPrint	SeqDerMap	FingerPrint
8696	8856	3845	3999	10997	10643
6	<800	6382	6490	2067	2051
4995	4998	512	<800	12782	12807
2246	2241	449	<800	13590	12807
4061	4055	11421	11078	13168	12807
2665	2694	3245	3293	3447	3526
519	<800	3752	3826	5493	5591
1442	1386	1035	1032	1619	1545
6438	6457	881	873	9870	9617
2522	2531	5764	5726	6707	6693
9191	9289	6793	6788	3014	3167
2510	2531	889	873	4466	4431
138	<800	740	<800	16871	17658
2876	2910	2548	2558	1067	1017
1971	1982	2797	2775	5594	5591
812	796	5345	5298	10765	10643

FEATURES
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Location/Qualifiers
1..196773
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="3"
/clone="RP11-755B10"
/clone_id="RP11 human BAC library 11"

ORIGIN

Query Match 39.2%; Score 156.6; DB 5; Length 196773;
Best Local Similarity 71.4%; Pred. No. 2.1e-42;
Matches 222; Conservative 1; Mismatches 80; Indels 8; Gaps 1;
37 AATATTAAATAGACATTGTCAGGCCAGCATGACACTGGCTGAATGCTGTAAATCCAG 96

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DB 1090 AAAAATATATACAAATACAGAGCTGGGTGGTGTGATGCTGCTGTAATCTAG 31149
QY 97 CACTTCGGGAGGCCAAGGTGGCGGATCACTGAGGTCAAGATCGAGACCATCTGAC 156
DB 31150 CACTTTGGGAGGCCAAGGACAGGTGATCACTGAGGTGAGAGTTGAGACTAGCCTGGC 31209
QY 157 CAACATGGTGAACCCGCTTACTTAAATAATCAAAATGCTGGGATGCTGGCACA 216
DB 31210 CAACATGGTGAACCCGCTTACTTAAATAATCAAAATGCTGGGATGCTGGCACA 31269
QY 217 CACCTGTATGCCAGCTACTCAGAGCCGAGATTCAGTGTGATGCTGAGATGA 276
DB 31270 CGCTGTATATCCCACTACTGAGAGGAGGAGTTGCACTGAGCTAGATC-----A 31321
QY 277 GCCGAATTCACAGATCACAGAGTGAAGAGTGAAGACKCGCTGCAAAACCAACAA 336
DB 31322 TGCCATTCACATCTGCTGGGAGACAAGAGTGAATCTCATCTCAAAATAAACA 31381
QY 337 AAACAAAAAA 347
DB 31382 AATATAATACA 31392

RESULT 32
AC016552/c 102008 bp DNA linear HTG 19-APR-2001
LOCUS Homo sapiens chromosome 5 clone CTC-285M15, WORKING DRAFT SEQUENCE,
DEFINITION 4 ordered pieces,
ACCESSION AC016552
VERSION AC016552.5 GI:7711562
KEYWORDS HTG; HTGS_PHASE2; HTGS_DRAFT; HTGS_ACTIVEFIN.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominda; Homo.
REFERENCE 1 (bases 1 to 102008)
AUTHORS DOE Joint Genome Institute.
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 102008)
AUTHORS DOE Joint Genome Institute.
JOURNAL Direct Submission
Submitted (04-DEC-1999) Production Sequencing Facility, DOE Joint
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
On May 6, 2000 this sequence version replaced gi:7710241.
-----Genome Center
Center: Joint Genome Institute
Center Code: JGI
Web site: http://www.jgi.doe.gov
-----
Project Information
Center Project Name: 294922
Center clone name: CIT-HSPC_285M15
-----
Summary Statistics
Consensus quality: 92975 bases at least Q40
Consensus quality: 98251 bases at least Q30
Consensus quality: 100181 bases at least Q20
Estimated insert size: 106000; pulse field gel estimation
Estimated insert size: 101858; sum-of-coverage estimation
Quality coverage: 5.46 in Q20 bases; pulse field gel estimation
Quality coverage: 5.69 in Q20 bases; sum-of-coverage estimation.
* NOTE: This is a 'working draft' sequence. It currently
* consists of 4 contigs. Gaps between the contigs
* are represented as runs of N. The order of the pieces
* is believed to be correct as given, however the sizes
* of the gaps between them are based on estimates that have
* provided by the submitter.
* This sequence will be replaced
* by the finished sequence as soon as it is available and
* the accession number will be preserved.

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FEATURES
source
1. 63901: contig of 63901 bp in length
* 63902 64001: gap of unknown length
* 64002 92415: contig of 28414 bp in length
* 92416 92515: gap of unknown length
* 92516 101204: contig of 8689 bp in length
* 101205 101304: gap of unknown length
* 101305 102008: contig of 704 bp in length.
Location/Qualifiers
1. 102008
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="5"
/clone="CTC-285M15"
/clone_lib="Caltech human BAC library C"
63902..64001
/estimated_length=unknown
92416..92515
/estimated_length=unknown
101205..101304
/estimated_length=unknown

ORIGIN
Query Match 39.1%; Score 156.4; DB 12; Length 102008;
Best Local Similarity 76.6%; Pred. No. 1.8e-42;
Matches 216; Conservative 1; Mismatches 62; Indels 3; Gaps 2;

QY 81 ATGCTGTATATCCAGACACTTCGGAGGCCAAGGTGGCGGATCACTGAGGTCAAGAGA 140
DB 71686 ATGCTGTATATCCAGACACTTCGGAGGCCAAGGTGGGTGATCACTGAGGTCAAGAGT 71627
QY 141 TCGAGACCATCTCTGGCCCAACATGTTGAAACCCGCTTTACTTAAATAATCAAAATATGC 200
DB 71626 TCGAGACCATCTCTGGCCCAACATGTTGAAACCCGCTTTACTTAAATAATCAAAATATGC 71567
QY 201 TGGGCAATGTT--GGCACACACCTGTAGTCCAGCTACTCAGAGCCGAGATTGCACTGA 258
DB 71566 CAGGTGTGTGGGGGACACGCGCTGTAGTCCAGCTACTCAGAGCTGAGGACGACGAAAT 71507
QY 259 GCTGATGTCGAGAGTGAAGCCGAATCAAGATCAAGAGTGAAGTGAAGTGAAGTGAAGT 318
DB 71506 CGCTTGAACCCAGGAGGTGGAGCTGCTGCTCAGAGCTG--GGCAACAGAGTGAAGTCCGT 71448
QY 319 CTCAAAAACACACAAAAACAAAAACATTAAGACTTGG 360
DB 71447 CTCAAAAACACACAAAAACAAAAACATTAAGACTTGG 71406

RESULT 33
AC008499/c 244525 bp DNA linear PRI 26-JAN-2002
LOCUS Homo sapiens chromosome 5 clone CTC-43803, complete sequence.
DEFINITION AC008499
ACCESSION AC008499
VERSION AC008499.8 GI:18376856
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominda; Homo.
REFERENCE 1 (bases 1 to 244525)
AUTHORS DOE Joint Genome Institute and Stanford Human Genome Center.
JOURNAL Direct Submission
Submitted (03-DEC-1999) Production Sequencing Facility, DOE Joint
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
On May 6, 2000 this sequence version replaced gi:18376856.
-----Genome Center
Center: Joint Genome Institute
Center Code: JGI
Web site: http://www.jgi.doe.gov
-----
Project Information
Center Project Name: 294922
Center clone name: CIT-HSPC_285M15
-----
Summary Statistics
Consensus quality: 92975 bases at least Q40
Consensus quality: 98251 bases at least Q30
Consensus quality: 100181 bases at least Q20
Estimated insert size: 106000; pulse field gel estimation
Estimated insert size: 101858; sum-of-coverage estimation
Quality coverage: 5.46 in Q20 bases; pulse field gel estimation
Quality coverage: 5.69 in Q20 bases; sum-of-coverage estimation.
* NOTE: This is a 'working draft' sequence. It currently
* consists of 4 contigs. Gaps between the contigs
* are represented as runs of N. The order of the pieces
* is believed to be correct as given, however the sizes
* of the gaps between them are based on estimates that have
* provided by the submitter.
* This sequence will be replaced
* by the finished sequence as soon as it is available and
* the accession number will be preserved.

```

Drive, Walnut Creek, CA 94598, USA

REFERENCE 4 (bases 1 to 244525)

AUTHORS DOE Joint Genome Institute and Stanford Human Genome Center.

TITLE Direct Submission

JOURNAL Submitted (26-JAN-2002) DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA

COMMENT On Jan 26, 2002 this sequence version replaced gi:117386226.

Draft Sequence Produced by DOE Joint Genome Institute

www.jgi.doe.gov

Finishing Completed at Stanford Human Genome Center

www.sngc.stanford.edu

Quality: Phrap Quality >=40 99.7% of Sequence;

Estimated Total Number of Errors is 0.4.

FEATURES

source

location/Qualifiers

1.244525

/organism="Homo sapiens"

/mol_type="genomic DNA"

/db_xref="taxon:9606"

/chromosome="5"

/clone="CTC-43803"

ORIGIN

Query Match 39.1%; Score 156.4; DB 5; Length 244525;

Best Local Similarity 76.6%; Pred. No. 2.7e-42;

Matches 216; Conservative 1; Mismatches 62; Indels 3; Gaps 2;

QY 81 ATGCTGTATATCCAGCACTTCGGAGAGCCAAAGTGGGCGGATCACCTGAGGTCAAGGA 140

DB 86801 ATGCTGTATATCCAGCACTTCGGAGAGCCAAAGTGGGCGGATCACCTGAGGTCAAGGA 140

QY 141 TCGAGACCATCTGGCCCAATGTTGAACCCGCTTATCAAAAATATACAAAATATAGC 200

DB 86741 TCGAGACCATCTGGCCCAATGTTGAACCCGCTTATCAAAAATATACAAAATATAGC 200

QY 201 TGGGATAGT--GGCACAACCTGTAGTCCAGCTACTCAGAGCCGAGATTCGAGTGA 258

DB 86681 CAGGTGTGTGGGGGACACGCTGTAGTCCAGCTACTCAGAGCCGAGATTCGAGTGA 258

QY 259 GCTGAGATCGCAGATGACCGGAATTCACATATCAGATGAGCAGATGACGACCTG 318

DB 86621 CGTTGAACCCAGGAGGTGAGCTGCACTCCAGCTT-GGCCAACAGAGTACGACTCGT 86563

QY 319 CTCAAAAACAACAACAAAAACAAAAACCAATAGACATTG 360

DB 86562 CTCAAAAACAACAACAAAAACAAAAACCAATAGTACTTG 86521

RESULT 34

AC107377 88848 bp DNA linear PRI 01-MAY-2002

LOCUS Homo sapiens chromosome 17, clone CTD-2314M10, complete sequence.

AC107377

AC107377.4 GI:20377031

VERSION HTG.

KEYWORDS

SOURCE

ORGANISM

Homo sapiens (human)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.

1 (bases 1 to 88848)

2 (bases 1 to 88848)

REFERENCE

AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Ali,A., Allen,N., Anderson,S., Barna,N., Bastien,V., Boguslavsky,L., Boukhalter,B., Brown,A., Camarata,J., Chang,J., Chazaro,B., Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cook,A., Cooke,P., Dearellano,K., Dewar,K., Diaz,J.S., Dodge,S., Faro,S., Ferreira,P., Fitzhugh,W., Gage,D., Galagan,J., Gardyna,S., Ginde,S., Gord,S., Goyette,M., Graham,L., Grand-Pierre,N., Hagos,B., Heaford,A., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C., Kamat,A., Karatas,A., Kelle,C., LaRoque,K.,

Lamazares,R., Landers,T., Lehoczy,J., Levine,R., Liu,G., Maclean,C., MacDonald,P., Major,J., Marguis,N., Matthews,C., McCarthy,M., McEwan,P., McKernan,K., McPheters,R., Meldrim,J., Menesh,L., Mihova,T., Mlenga,V., Murphy,T., Naylor,J., Nguyen,C., Norbu,C., Norman,C.H., O'Connor,T., O'Donnell,P., O'Neill,D., Oliver,J., Peterson,K., Phunhang,P., Pierre,N., Pollara,V., Raymond,C., Retra,R., Rieback,M., Riley,R., Rise,C., Rogov,P., Roman,J., Rosetti,M., Roy,A., Santos,R., Schauer,S., Schupack,R., Seaman,S., Severy,P., Spencer,B., Strange-Thomann,N., Stojanovic,N., Straus,N., Subramanian,A., Talamas,J., Tesfaye,S., Theodore,D., Topham,K., Travers,M., Travis,N., Triggilio,J., Vassiliev,H., Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G., Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.

Direct Submission

Submitted (19-JUN-2002) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA

3 (bases 1 to 88848)

REFERENCE

AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Ali,A., Allen,N., Anderson,S., Barna,N., Bastien,V., Bloom,T., Boguslavsky,L., Boukhalter,B., Brown,A., Camarata,J., Campopiano,A., Chang,J., Chazaro,B., Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cook,A., Cooke,P., Dearellano,K., Dewar,K., Diaz,J.S., Dodge,S., Faro,S., Ferreira,P., Fitzhugh,W., Gage,D., Galagan,J., Gardyna,S., Ginde,S., Gord,S., Goyette,M., Graham,L., Grand-Pierre,N., Hagos,B., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C., Kamat,A., Karatas,A., Kelle,C., LaRoque,K., Lamazares,R., Landers,T., Lehoczy,J., Levine,R., Lindblad-Toh,K., Liu,G., Maclean,C., MacDonald,P., Major,J., Marguis,N., Matthews,C., McCarthy,M., McEwan,P., McKernan,K., Meldrim,J., Menesh,L., Mihova,T., Mlenga,V., Murphy,T., Naylor,J., Nguyen,C., Nicol,R., Norbu,C., Norman,C.H., O'Connor,T., O'Donnell,P., O'Neill,D., Oliver,J., Peterson,K., Phunhang,P., Pierre,N., Pollara,V., Raymond,C., Retra,R., Rieback,M., Riley,R., Rise,C., Rogov,P., Roman,J., Rosetti,M., Roy,A., Santos,R., Schauer,S., Schupack,R., Seaman,S., Severy,P., Spencer,B., Strange-Thomann,N., Stojanovic,N., Straus,N., Subramanian,A., Talamas,J., Tesfaye,S., Theodore,D., Topham,K., Travers,M., Travis,N., Triggilio,J., Vassiliev,H., Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G., Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.

Direct Submission

Submitted (25-APR-2002) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA

4 (bases 1 to 88848)

REFERENCE

AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Ali,A., Allen,N., Anderson,S., Barna,N., Bastien,V., Bloom,T., Boguslavsky,L., Boukhalter,B., Brown,A., Camarata,J., Campopiano,A., Chang,J., Chazaro,B., Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cook,A., Cooke,P., Dearellano,K., Dewar,K., Diaz,J.S., Dodge,S., Faro,S., Ferreira,P., Fitzhugh,W., Gage,D., Galagan,J., Gardyna,S., Ginde,S., Gord,S., Goyette,M., Graham,L., Grand-Pierre,N., Hagos,B., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C., Kamat,A., Karatas,A., Kelle,C., LaRoque,K., Lamazares,R., Landers,T., Lehoczy,J., Levine,R., Lindblad-Toh,K., Liu,G., Maclean,C., MacDonald,P., Major,J., Marguis,N., Matthews,C., McCarthy,M., McEwan,P., McKernan,K., Meldrim,J., Menesh,L., Mihova,T., Mlenga,V., Murphy,T., Naylor,J., Nguyen,C., Nicol,R., Norbu,C., Norman,C.H., O'Connor,T., O'Donnell,P., O'Neill,D., Oliver,J., Peterson,K., Phunhang,P., Pierre,N., Pollara,V., Raymond,C., Retra,R., Rieback,M., Riley,R., Rise,C., Rogov,P., Roman,J., Rosetti,M., Roy,A., Santos,R., Schauer,S., Schupack,R., Seaman,S., Severy,P., Spencer,B., Strange-Thomann,N., Stojanovic,N., Straus,N., Subramanian,A., Talamas,J., Tesfaye,S., Theodore,D., Topham,K., Travers,M., Travis,N., Triggilio,J., Vassiliev,H., Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G., Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.

Direct Submission

Submitted (01-MAY-2002) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA

On May 1, 2002 this sequence version replaced gi:20303884.

All repeats were identified using RepeatMasker:

http://ftp.genome.washington.edu/RM/RepeatMasker.html

----- Genome Center

COMMENT

TITLE

JOURNAL

REFERENCE
AUTHORS
1 (bases 1 to 182725)
Boutonell, A., Base, D., Benjamin, B., Bera, J., Blakesley, R. W.,
Boufford, G. G., Brinkley, C., Brooks, S., Chu, G., Coleman, H.,
Franks, S., Fuksenko, T., Gestole, M., Greene, A., Guan, X., Gupta, J.,

Hunter, G., Hurtle, B., Idol, J.R., Krong, P., Laric, P., Larson, S.,
 Lee-Lin, S.-Q., Legaspi, R., Madden, M., Maduro, Q.L., Maduro, V.B.,
 Margulies, E.H., Masiello, C., Maskeri, B., McConwell, J.,
 Montemayor, C., Mullikin, J.C., Park, M., Prasad, A., Puri, O.,
 Rantz, K., Reddi-Dugue, N., Sante, A., Schandler, K., Schueler, M.G.,
 Sison, C., Stentripop, S., Taye, A., Thomas, J.W., Thomas, P.J.,
 Tsipouris, V., Ung, L., Vogt, J.L., Wetherby, K.D., Withers, T.R.,
 Young, A. and Green, E.D.
 NISC Comparative Sequencing Initiative
 2 (bases 1 to 182725)
 Unpublished
 Green, E.D.
 Direct Submission
 Submitted (23-NOV-2005) NIH Intramural Sequencing Center, 5625
 Fishers Lane, Rockville, MD 20852, USA
 3 (bases 1 to 182725)
 Green, E.D.
 Direct Submission
 Submitted (31-JAN-2006) NIH Intramural Sequencing Center, 5625
 Fishers Lane, Rockville, MD 20852, USA
 On Jan 31, 2006 this sequence version replaced gi:82617757.
 ----- Genome Center -----
 Center: NIH Intramural Sequencing Center
 Center code: NISC
 Web site: <http://www.nisc.nih.gov>
 Contact: nisc_zoo@nhgri.nih.gov
 ----- Project Information -----
 Center project name: mrn
 Center clone name: 041K03

 The sequence data in this record represents an 'enhanced'
 version of a Phase 2 submission. Specifically, the indicated
 order and orientation of each sequence contig has been
 established using one or more of the following: read-pair
 data from individual subclones, overlaps with neighboring
 clones, alignment with available reference sequence (e.g.,
 human), and/or confirmation by PCR testing. In addition,
 the sequence assembly is generally based on at least 8x average
 coverage in Q20 bases and has been reviewed to rule out
 gross misassemblies, the low-quality ends of sequence
 contigs have been trimmed away, and each base is associated
 with a Phrap-derived quality score.
 ----- Summary Statistics -----
 Sequencing vector: plasmid; n/a; 100% of reads
 Chemistry: Dye-terminator Big Dye; 100% of reads
 Assembly program: Phrap; version 0.990319
 Consensus quality: 179767 bases at least Q40
 Consensus quality: 180990 bases at least Q30
 Consensus quality: 181586 bases at least Q20
 Insert size: 214000; agarose-fp
 Insert size: 181925; sum-of-contigs
 Quality coverage: 9.44x in Q20 bases; agarose-fp
 Quality coverage: 11.11x in Q20 bases; sum-of-contigs

 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 9 contigs. Gaps between the contigs
 * are represented as runs of N. The order of the pieces
 * is believed to be correct as given, however the sizes
 * of the gaps between them are based on estimates that have
 * provided by the submittor.
 * This sequence will be replaced
 * by the finished sequence as soon as it is available and
 * the accession number will be preserved.
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 * 1 22543: contig of 22543 bp in length
 * 22544 22643: gap of unknown length
 * 22644 31875: contig of 9232 bp in length
 * 31876 31876: gap of unknown length
 * 31876 122998: contig of 91023 bp in length
 * 122999 123098: gap of unknown length
 * 123099 136487: contig of 13389 bp in length
 * 136488 136587: gap of unknown length
 * 136588 139369: contig of 2782 bp in length

[illegible]

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OY		261	TGAGATCGCAGAGTGTGAGCCCGAAATCACAGATGTACAAGAGTGTGAGAGTGCCKCGCT	320
D8		23328	CGAGTATCA-----CAAATGCACTTCCAGCTCGGAGAARAGAGGACTTATCT	23279
OY		321	CAAAAACAACAACAAAAACAAAAAACATTAAGACATTGTCATCTGCGGTTCCAGAC	380
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OY		381	TATTGCHAGAGACCAAAAA	399
D8		23218	TTTTGGAAAGGCCCMAGAGAA	23200
<hr/>				
RESULT_36				
Locus	DJ534K4	216387 bp	DNA	linear PRI 23-DEC-1998
DEFINITION	Homo sapiens S164 gene, partial cds; PSI and hypothetical protein genes, complete cds; and S171 gene, partial cds.			
ACCESSION	AF109907			
VERSION	AF109907.1	GI:4050085		
KEYWORDS				
SOURCE	Homo sapiens (human)			
ORGANISM	Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominoidea; Homo;			
REFERENCE	1 (bases 1 to 216387) Rowen,L., Madan,A., Qin,S., Abbasi,N., Dors,M., Ratcliffe,A., Madan,L., Dickhoff,R., Shaffer,T., James,R., Laaky,S. and Hood,L. Complete sequence of the gene for presentin 1 Unpublished			
JOURNAL	2 (bases 1 to 216387) Rowen,L. Direct Submission Submitted (30-NOV-1998) Department of Molecular Biotechnology, Box 357730 University of Washington, Seattle, Washington 98195, USA Sequencing methodology: high redundancy shotgun using plasmids, interspersed repeats were identified with RepeatMasker (available from http://ftp.genome.washington.edu/RW/RepeatMasker.html).			
AUTHORS	Location/Qualifiers			
COMMENT	1..216387 /organism="Homo sapiens" /mol_type="genomic DNA" /db_xref="taxon:9606" /chromosome="14" /map="14q24.3" /clone="BAC534K4" /clone_1lb="P. deJong RPC11" complement(262..556) /rpt_family="AluYo"			
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two genes are in this span, if so, the stop codon for the first gene could not be identified; the beginning and the end of this gene may not match a hypothetical 'RNA recognition protein' from several species, based on blastx".

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MEBRRDLISNEIKSFRDTHKCLLEEKGXKEKOIEKRRRREREERERER  
REBERDRERERERERERDRDRDKERDRDRDRDRDRDRDRDRDRDRDR  
REKRDPREREERERERERERERERERERERERERERERERERERERER  
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DAELORMQEQAEARRRQPOIKOEPESEEEEEKOEKERKPWESEEPQOK  
LRPISAPVSAGNAATPMTPGDSEPCCGIIIHENSPDOQPCEHRPKGLSG  
SNRSQSIVSKRKLVDVSVNKDEDSDVPRKRLVLDYGEDKNATKTKR  
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complement(12992. .3287)  
/rpt_family="AlusCg"  
repeat_region  
complement(3417. .3716)  
/rpt_family="AlusSq"  
repeat_region  
complement(3956. .4121)  
/rpt_family="LMC4"  
repeat_region  
4141. .4426  
/rpt_family="AlusCg"  
complement(4676. .4975)  
/rpt_family="Alusx"  
repeat_region  
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repeat_region  
complement(5372. .5672)  
/rpt_family="Aluv"  
repeat_region  
6838. .7145  
/rpt_family="Alusq"  
repeat_region  
7176. .7244  
/rpt_unit_beg="taaaa"  
repeat_region  
complement(7334. .7632)  
/rpt_family="Alusx"  
repeat_region  
complement(7633. .7925)  
/rpt_family="Alusq"  
repeat_region  
complement(8038. .8328)  
/rpt_family="Alusq"  
repeat_region  
complement(8664. .8890)  
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repeat_region  
complement(9200. .9490)  
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repeat_region  
9570. .9864  
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repeat_region  
9894. .9921  
/rpt_family="AT_rich"  
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10178. .10277  
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Matches 218; Conservative 1; Mismatches 53; Indels 11; Gaps 2;

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RESULT 37

AL732374/c

AL732374 224187 bp DNA linear PRI 18-MAY-2005

LOCUS Human DNA sequence from clone RP13-444K19 on chromosome X contains a mitochondrial ribosomal protein S18C (MRPS18C) pseudogene, the 3' end of the gene for a novel protein similar to PHD finger protein 2 PHF2 and a CpG island, complete sequence.

ACCESSION

AL732374.14 GI:23476649

VERSION HTG; CpG island; MRPS18C; PHF2.

KEYWORDS

Homo sapiens (human)

SOURCE

Homo sapiens

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;

Homnidae; Homo.

1 (bases 1 to 224187)

REFERENCE

AUTHORS

TITLE

JOURNML

COMMENT

Submitted (13-MAY-2005) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: vegas@sanger.ac.uk

Clone requests: clonequest@sanger.ac.uk

On Oct 2, 2002 this sequence version replaced gi:23393869.

The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases:

Emi, EMBL; SW, SWISSPROT; Tr, TREMBL; Wp, WORMPEP; Information on the WORMPEP database can be found at

http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence was generated from part of bacterial clone contigs of human chromosome X, constructed by the Sanger Centre Chromosome X Mapping Group. Further information can be found at

http://www.sanger.ac.uk/HGP/ChrX

RP13-444K19 is from the library RPl3-13.2 constructed by the group of Pieter de Jong. For further details see

http://www.chori.org/bacpac/home.htm

VECTOR: pBACe3.6

----- Genome Center

Center: Wellcome Trust Sanger Institute

Center code: SC

Web site: http://www.sanger.ac.uk

Contact: vegas@sanger.ac.uk

This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one subclone; and the assembly was confirmed by restriction digest.

FEATURES
except on the rare occasion of the clone being a YAC.

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Query Match
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 DB 44185 ACGCTGAATCTCAGCACTTGGGAGGCTGAAGTGGTGAATCTCTGAGGTGAGAGT 44126
 DB 141 TCGAGACATCTGGCCCAACATGGTGAACCCCGCTTACTTAAATAATCAAAAAATATAGC 200
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RESULT 38
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 Contains the 5' end of the MAN1A1 gene for mannosidase, alpha,
 class 1A, member 1 (Man9-mannosidase (MAN9), HUM9). Contains a Cpg
 island, complete sequence.
 AL078600
 AL078600.15 GI:6273536
 HTG; Cpg Island; HUM9; MAN1A1; MAN9; Man9-mannosidase;
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 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.
 1 (bases 1 to 122961)
 Dumm,M.
 Direct Submission
 Submitted (13-MAY-2005) Wellcome Trust Sanger Institute, Hinxton,
 Cambridgeshire, CB10 1SA, UK. E-mail enquiries: vegas@sanger.ac.uk
 Clone requests: clonerequest@sanger.ac.uk
 On Nov 7, 1999 this sequence version replaced gi:6165363.
 The following abbreviations are used to associate primary accession
 numbers given in the feature table with their source databases:
 Emi; EMBL; Sw; SWISSPROT; Tr; TREMBL; Wp; WORMPEP; Information
 on the WORMPEP database can be found at
 http://www.sanger.ac.uk/projects/C_elegans/wormpep This sequence
 was generated from part of bacterial clone contigs of human
 chromosome 6, constructed by the Sanger Centre Chromosome 6 Mapping
 Group. Further information can be found at
 http://www.sanger.ac.uk/HGP/Chr6
 RPI-193N13 is from the library RPI-1 constructed by the group of
 Pletier de Jong. For further details see
 http://www.chori.org/bacpac/home.htm
 VECTOR: pCYPAC2
 ----- Genome Center
 Center: Wellcome Trust Sanger Institute

FEATURES

Center code: SC
 Web site: <http://www.sanger.ac.uk>
 Contact: vegas@sanger.ac.uk

 This sequence was finished as follows unless otherwise noted: all
 regions were either double-stranded or sequenced with an alternate
 chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such
 as compressions and repeats; all regions were covered by at least
 one subclone; and the assembly of the clone being a YAC.
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CDS

mRNA
 gene
 misc_feature
 CDS

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 KSSSGLYIAEMKGLLEHMKGHLCTCFADGAFALADAPGMQDHYLELCAELARTC
 HESYVRTEKMRPEAFREDFGVLEALATRONKEYYLIRPEVETWYMRRLTHDPYRK
 WAMEVEALENHCRVNGYSGLRDYLTLBESYSDVQSFPLAETLKLYLILFSDDDL
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 122961
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ORIGIN
 Query Match 38.9%; Score 155.4; DB 5; Length 122961;
 Best Local Similarity 74.7%; Pred. No. 4.4e-42;
 Matches 210; Conservative 1; Mismatches 62; Indels 8; Gaps 1;
 QY 81 ATGCTGTATATCCAGCACTTCGGAGGCGCAAGGTGGGCGGATCACTGAGGTCAAGGA 140
 DB 35762 ACGCTGTATATCCAGGCGCTTGGAGGCGCAAGGTGGAGATCACTGAGGTCAAGGT 35821
 QY 141 TCGAGCACTCTGCGCCCAACATGTGTAACCCCGCTTTACTTAAATAATCAAAAAATATGC 200
 DB 35822 TGGAGACCAAGCTGCGCCCAACATGTGTAACCTGTCTTACCAGAAAAATTAATATGAC 35881
 QY 201 TGGGCAATGTGAGCAACACCTGTAGTCCAGCTACTCAGAGCGGAGATTGCAATGAGC 260
 DB 35882 TGGGCGTGTGTGGCGGCACTGTATATCCAGCTACTCAGAGCGTGGAGGTGAGTGC 35941
 QY 261 TGAGATCGCAGAGTGAGCCGCAATCAAGATCAAGATGAGAGTGAAGACCCCTCT 320
 DB 35942 TGAAGTCTC-----ATGCGCACTGCACTCCAGCGCTGGCGGCAAGAGCAAACTCAGCT 35993
 QY 321 CAAAAACAACAACAAAAAACCAATTAAGACATTGT 361
 DB 35994 CAAAAACAAAAAAGCAATTAAGCAATATATTTT 36034
 RESULT 39
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 LOCUS Homo sapiens PAC clone RP4-747G18 from 7q22-31.1, complete
 DEFINITION
 AC004876
 VERSION AC004876.2 GI:4508148
 KEYWORDS HUG.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.
 1 (bases 1 to 126462)
 Sulfston, J.E. and Waterston, R.
 Toward a complete human genome sequence
 Genome Res. 8 (11), 1097-1108 (1998)
 PUBMED 9847074
 REFERENCE
 AUTHORS Cordes, M. and Dodel, D.
 TITLE The sequence of Homo sapiens PAC clone RP4-747G18
 JOURNAL Unpublished
 3 (bases 1 to 126462)
 REFERENCE
 AUTHORS Waterston, R.H.
 TITLE Direct Submission
 JOURNAL Submitted (12-JUN-1998) Genome Sequencing Center, Washington
 University School of Medicine, 4444 Forest Park Parkway, St. Louis,
 MO 63108, USA
 4 (bases 1 to 126462)
 REFERENCE
 AUTHORS Waterston, R.H.
 TITLE Direct Submission
 JOURNAL Submitted (24-MAR-1999) Genome Sequencing Center, Washington
 University School of Medicine, 4444 Forest Park Parkway, St. Louis,
 MO 63108, USA
 5 (bases 1 to 126462)
 REFERENCE
 AUTHORS Waterston, R.

TITLE Direct Submission
 JOURNAL Submitted (28-JUL-1999) Department of Genetics, Washington
 University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
 6 (bases 1 to 126462)
 REFERENCE
 AUTHORS Waterston, R.
 TITLE Direct Submission
 JOURNAL Submitted (21-DEC-1999) Department of Genetics, Washington
 University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
 On Mar 24, 1999 this sequence version replaced gi:3233121.
 COMMENT
 ----- Genome Center
 Center: Washington University Genome Sequencing Center
 Center code: MUGSC
 Web site: http://genome.wustl.edu/gsc
 Contact: saplens@wustl.wustl.edu
 ----- Summary Statistics
 Center project name: H_DJ0747G18

NOTICE: This sequence may not represent the entire insert of this
 clone. It may be shorter because we only sequence overlapping
 clone sections once, or longer because we provide a small overlap
 between neighboring data submissions.

This sequence was finished as follows unless otherwise noted:
 all regions were double stranded, sequenced with an alternate
 chemistry, or covered by high quality data (i.e., phred quality >=
 30); an attempt was made to resolve all sequencing problems, such
 as compressions and repeats; all regions were covered by sequence
 from more than one subclone; and the assembly was confirmed by
 restriction digest.

MAPPING INFORMATION:
 The sequence of this clone was established as part of a mapping and
 sequencing collaboration between the NHGRI Chromosome 7 Mapping
 Project (Eric D. Green, Director), John D. McPherson at the
 Department of Genetics (Washington University), and the Washington
 University Genome Sequencing Center. For additional information
 about the map position of this sequence, see
 http://www.nhgri.nih.gov/DIR/CTB/CHR7, send
 mailto:egreen@nhgri.nih.gov, or see http://genome.wustl.edu/gsc

SOURCE INFORMATION:
 This clone was derived from human PAC library RPCT-4, prepared by
 Pieter de Jong and coworkers at the Roswell Park Cancer Institute
 (http://bacpac.med.buffalo.edu) using the method described by
 Ioannou et al., Nature Genetics 6:84-9 (1994). The library is from
 one male donor.

The clone may be obtained either from Genome Systems, Inc.
 (http://www.genomesystems.com) or Research Genetics, Inc.
 (http://www.reagen.com); or from Pieter de Jong.

VECTOR: pCYPAC2
 NEIGHBORING SEQUENCE INFORMATION:
 Actual start of this clone is at base position 1 of RP4-747G18;
 actual end is at 126462 of RP4-747G18.

The double stranded from 79862 to 80357 in the PAC RP4-747G18 can
 not be guaranteed although their sequence fidelity is believed to
 be correct. Digests using EcoRV and HindIII are consistent with
 the submitted assembly.

FEATURES
 SOURCE Location/Qualifiers

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 /db_xref="taxon:9606"
 /chromosome="7"
 /map="7q22-31.1"
 /clone="RP4-747G18"
 /clone_lib="RPCT-4"
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 /rpt_family="Alu"
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 578..898
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 1238..1373
 repeat_region

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                    10971..11246
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                    11807..12056
repeat_region      /rpt_family="Alu"
                    12103..12411
repeat_region      /rpt_family="Alu"
                    12404..12935
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repeat_region      /rpt_family="Alu"
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repeat_region      /rpt_family="Alu"

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repeat_region      14720..15036
                    /rpt_family="Alu"
repeat_region      15202..15380
                    /rpt_family="Alu"
repeat_region      15383..15684
                    /rpt_family="Alu"
repeat_region      16159..16198
                    /rpt_family="MIR"
repeat_region      16219..16337
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repeat_region      16355..16422
                    /rpt_family="polypurine"
repeat_region      16479..16579
                    /rpt_family="MIR"

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Query Match 38.9%; Score 155.4; DB 5; Length 126462;
 Best Local Similarity 72.6%; Pred. No. 4.5e-42;
 Matches 217; Conservative 1; Mismatches 72; Indels 9; Gaps 1;

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Qy      81 ATGCGTAAATCCAGACCTCGGAGGCCAAGTGGCGGATCACTGAGTCAAGAGA 140
Db      93671 ACGCTTAATCCAGACCTTTGGAAGGCCAAGTGGCGGATCACTGAGGCCAGAGAT 93730
Qy      141 TCGAGACCATCTGGCCAGACATGTTAAACCCGCTTTACTTAAATACAAAAATAGC 200
Db      93731 TCGAGACCATCTGGCCAGACATGTTAAACCCGCTTTACTTAAATACAAAAATAGC 93790
Qy      201 TGGGCAATGTTGGACACACCTGTGTCCAGTACTGAGAGCCGAGATTGCAATGAGC 260
Db      93791 CCGAGTGTGTGGGCGCTGTGTCCTCAACTGAGAGCGGAGTTGCAATGAGC 93850
Qy      261 TGAGATCGAGAGTGGAGCCGAATACAGATACAGAGTGAAGTGAACKCCGTCT 320
Db      93851 CGAGACCAAGCGCTTTGACATCCAGCTCGGGCGA-----CAGACGAGACCTGTCT 93901
Qy      321 CAAAAACAACAACAAAAAACAACATTAAGACATTTGTCATCTGGGTTCCAGCA 379
Db      93902 CAACACAATTAACAAAAAGAAACAAGTCAAGTCTTGCCTTGAATGGGGTCAAGA 93960

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RESULT 40
 AC007616 132492 bp DNA linear PRI 18-DEC-2003
 LOCUS Homo sapiens chromosome 16 clone RP11-547D14, complete sequence.
 DEFINITION AC007616
 ACCESSION AC007616
 VERSION AC007616.5 GI:40018659
 KEYWORDS HTG.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 132492)
 Jones, M., Buckingham, J., Chasteen, L., Thompson, S., Goodwin, L.,
 Bryant, J., Tesmer, D., Meincke, L., Longmire, J., White, S., Tatam, O.,
 Campbell, C., Fawcett, J., Malbie, M., Bussod, M., Sutherland, R.,
 McMurtry, K., Han, C. and Deaven, L.
 DOE Joint Genome Institute, Stanford Human Genome Center and Los
 Alamos National Laboratory.
 Direct Submission
 Unpublished
 2 (bases 1 to 132492)

TITLE JOURNAL
 Direct Submission
 Submitted (20-MAY-1999) Center for Human Genome Studies, DOE Joint
 Genome Institute, Los Alamos National Laboratory, MS M888, Los
 Alamos, NM 87545, USA

REFERENCE 3 (bases 1 to 132492)
 AUTHORS DOE Joint Genome Institute.
 TITLE Direct Submission
 JOURNAL Submitted (06-JUL-2002) Production Sequencing Facility, DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
 REFERENCE 4 (bases 1 to 132492)
 AUTHORS Stanford Human Genome Center and Los Alamos National Laboratory.
 CONSRM DOE Joint Genome Institute
 TITLE Direct Submission
 JOURNAL Submitted (18-DEC-2003) DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
 COMMENT On Dec 18, 2003 this sequence version replaced gi:21700556.
 Draft Sequence Produced by DOE Joint Genome Institute
 www.jgi.doe.gov
 Finishing Completed at Stanford Human Genome Center and Los Alamos National Laboratory
 www.sngc.stanford.edu
 Quality: Phrap Quality >=40 100% of Sequence;
 Estimated Total Number of Errors is 0.
 NOTE: This is not the entire sequence of the clone (entire sequence 168,9kb). It is clipped at the overlap with AC007613. The number of bases overlapped is 29296.
 Location/Qualifiers
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 /organism="Homo sapiens"
 /mol_type="genomic DNA"
 /db_xref="taxon:9606"
 /chromosome="16"
 /clone="RP11-547D14"

ORIGIN

Query Match 38.9%; Score 155.4; DB 5; Length 132492;
 Best Local Similarity 73.1%; Pred. No. 4,6e-42;
 Matches 198; Conservative 1; Mismatches 72; Indels 0; Gaps 0;

83 GCCTTAATCCAGACTTCGGAGAGCCAGAGTGGCGATCACTGAGTCAAGATC 142
 19740 GCCTTAATCCAGACTTCGGAGAGCCAGAGTGGCGATCACTGAGTCAAGATC 19681
 143 GAGACCATCTGGCGCAACATGTTGAACCCGCTCTTAATAAATAACAAAATAGCTG 202
 19680 GAGACCATCTGGCGCAACATGTTGAACCCGCTCTTAATAAATAAATAAATAGCTG 19621
 203 GGCATGTCGGACACACTGTAAGTCCAGCTACTAGAGCCGAGATTGACAGTGC 262
 19620 GGCATGTCGGACACACTGTAAGTCCAGCTACTAGAGCCGAGATTGACAGTGC 19561
 263 AGATCGCAGAGTGAAGCGAATATCAAGATCAAGAGTGAAGAGTGAAGAGTCTCA 322
 19560 TGAATCGCAGAGTGAAGCGAATATGTTGAATCCCTGGCGAGAGCGAGATCTCA 19501
 323 AAAACACACACACACACACACACACACATAA 353
 19500 AAAACACACACACACACACACACACACATAA 19470

RESULT 41
 AC027249/c 145679 bp DNA linear HTG 27-APR-2000
 LOCUS Homo sapiens chromosome 11 clone RP11-753B7 map 11, WORKING DRAFT
 DEFINITION
 AC027249.2 GI:7651924
 VERSION HTG; HTGS_PHASE1; HTGS_DRAFT.
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominoidea; Homo.
 REFERENCE 1 (bases 1 to 145679)
 AUTHORS Birren, B., Linton, L., Nusbaum, C. and Lander, E.
 TITLE Homo sapiens chromosome 11, clone RP11-753B7

JOURNAL
 REFERENCE 2 (bases 1 to 145679)
 AUTHORS
 Unpublished

REFERENCE 2 (bases 1 to 145679)
 AUTHORS Birren, B., Linton, L., Nusbaum, C., Lander, E., Abraham, H., Allen, N., Anderson, S., Baldwin, J., Barna, N., Bastien, V., Beda, F., Boguslavsky, L., Bouhagalter, B., Brown, A., Burkett, G., Campopiano, A., Castle, A., Chong, Y., Colangelo, M., Collins, S., Collymore, A., Cooke, P., Dekrellano, K., Dewar, K., Diaz, J. S., Dodge, S., Domingo, M., Doyle, S., Ginde, S., Goyette, M., Graham, L., Galagan, J., Gardyna, S., Grant, G., Hagos, B., Heaford, A., Horton, L., Grand-Pierre, N., Grant, G., Hagos, B., Heaford, A., Horton, L., Howland, J. C., Iliev, I., Johnson, R., Jones, C., Kann, L., Karacas, A., Klein, J., Labèque, K., Lamas, R., Lander, E., Lech, J., Levine, R., Liu, C., Liu, G., Locke, K., MacDonald, P., Margulis, N., McCarthy, M., McKean, P., McKernan, K., McPherson, R., Melnick, J., Meneus, L., Minova, T., Miranda, C., Mlepe, A., Morrow, J., Murphy, T., Naylor, J., Norman, C. H., O'Connor, T., O'Donnell, P., O'Neill, D., Oliver, T. M., Oliver, J., Peterson, K., Pierre, N., Plesani, C., Pollara, V., Raymond, C., Riley, R., Rogov, P., Rothman, D., Roy, A., Santos, R., Schauer, S., Severy, P., Spencer, B., Stange-Thomann, N., Stojanovic, N., Sudmanian, A., Talama, J., Teafaye, S., Theodore, J., Tittell, A., Travers, M., Triggillo, J., Vasilev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W. J., Young, G., Zainoun, J., Zimmer, A. and Zody, M.
 Direct Submission
 Submitted (28-MAR-2000) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA.
 On Apr 27, 2000 this sequence version replaced gi:7331619.
 All repeats were identified using RepeatMasker:
 Smit, A.F.A. & Green, P. (1996-1997)
 http://ftp.genome.washington.edu/RM/RepeatMasker.html

Genome Center
 Center: Whitehead Institute/ MIT Center for Genome Research
 Center code: WIR
 Web site: http://www-seq.wi.mit.edu
 Contact: sequence.submissions@genome.wi.mit.edu

Project Information
 Center project name: 16860
 Center clone name: 753B7

Sequencing Statistics
 Chemistry: Dye-terminator Big Dye; 100% of reads
 Assembly program: Phrap; version 0.960731
 Consensus quality: 128416 bases at least Q40
 Consensus quality: 137400 bases at least Q30
 Consensus quality: 140385 bases at least Q20
 Insert size: 154000; agarose-fp
 Insert size: 142279; sum-of-contigs
 Quality coverage: 3.9 in Q20 bases; agarose-fp
 Quality coverage: 4.2 in Q20 bases; sum-of-contigs

NOTE: This is a 'working draft' sequence. It currently consists of 35 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

1 1125: contig of 1125 bp in length
 * 1126 1225: gap of 100 bp
 * 1126 2425: contig of 1201 bp in length
 * 2427 2526: gap of 100 bp
 * 2527 3864: contig of 1338 bp in length
 * 3865 3964: gap of 100 bp
 * 3965 5223: contig of 1259 bp in length
 * 5224 5324: gap of 100 bp
 * 5324 7019: contig of 1696 bp in length
 * 7020 7119: gap of 100 bp
 * 7120 9177: contig of 2058 bp in length
 * 9178 9277: gap of 100 bp
 * 9278 11580: contig of 2303 bp in length
 * 11581 11680: gap of 100 bp
 * 11681 13580: contig of 1900 bp in length

[illegible]

KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.

REFERENCE
1
Hattori, M., Ishii, K., Toyoda, A., Taylor, T. D., Hong-Seog, P.,
Fujiyama, A., Yada, T., Totoki, Y., Matsunabe, H. and Sakaki, Y.
Homo sapiens genomic DNA
Published Only in Database (2000)
2 (bases 1 to 183444)
Hattori, M., Ishii, K., Toyoda, A., Taylor, T. D., Hong-Seog, P.,
Fujiyama, A., Yada, T., Totoki, Y., Matsunabe, H. and Sakaki, Y.
Direct Submission
Submitted (05-JAN-2000) Masahito Hattori, The Institute of Physical
and Chemical Research (RIKEN), Genomic Sciences Center (GSC);
1-7-22 Suenho-chou, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
(E-mail:hattori@gs.c.riken.go.jp, URL:http://hgp.gs.c.riken.go.jp/,
Tel:81-45-503-9111, Fax:81-45-503-9170)
On Jul 1, 2003 this sequence version replaced gi:31790714.

COMMENT
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/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="11"
/map="11q"
/clone="RP11-832N8"

ORIGIN

Query Match 38.9% Score 155.4; DB 5; Length 183444;
Best Local Similarity 76.0%; Pred. No. 5,4e-42;
Matches 203; Conservative 1; Mismatches 62; Indels 1; Gaps 1;

QY 81 ATGCTGTATATCCAGACCTTCGGAGGCGCAAGTGGCGGATCACTGAGGTCAAGAGA 140
DB 173708 ATGCTGTATATCCAGACCTTCGGAGGCGCAAGTGGCGGATCACTGAGGTCAAGAGA 173767
QY 141 TCGAAGACCTCTGCGCAACATGATGAAACCCGCTCTTTACTTAAATAACAAAAATAGC 200
DB 173768 TCGAAGACCTCTGCGCAACATGATGAAACCCGCTCTTTACTTAAATAACAAAAATAGC 173827
QY 201 TGGGATGATGCGACACACCTGTAGTCCAGCTACTGACGACCGGAGATTGCATGAC 260
DB 173828 TGGGATGATGCGACACACCTGTAGTCCAGCTACTGACGACCGGAGATTGCATGAC 173887
QY 261 TGAGATGCGACAGTGGCGCAATCAAGATCAAGATGAG-CAGAGTGAACACCGCTC 319
DB 173888 CTGGAACCCAGAGGCGGAGGCTGACAGTGAACAGATCGCACAGACAGATTCCGTC 173947
QY 320 TCAAAAACACACAAAAAACAATAA 346
DB 173948 TCAAAAACACACAAAAAACAATAA 173974

RSULT 43
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LOCUS Homo sapiens chromosome 11 clone RP11-531E6 map 11, WORKING DRAFT
DEFINITION
SEQUENCE, 22 unordered pieces.
AC018423
AC018423.4 GI:10045404
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo
1 (bases 1 to 202138)
Britten, B., Linton, L., Nussbaum, C. and Lander, E.
Homo sapiens chromosome 11, clone RP11-531E6
JOURNAL Unpublished

REFERENCE
AUTHORS
2 (bases 1 to 202138)
Britten, B., Linton, L., Nussbaum, C., Lander, E., Abraham, H., Allen, N.,
Anderson, S., Baldwin, J., Barina, N., Beckley, R., Beda, F.,
Boguslavsky, L., Boukhgalter, B., Brown, A., Castle, A., Colangelo, M.,
Collins, S., Collymore, A., Cooke, P., Dearellano, K., Dewar, K.,
Domino, M., Doyle, M., Feneiro, J., Ferreira, P., Fitzhugh, W.,
Forrest, C., Gage, D., Galagan, J., Gardina, S., Grant, G., Hagos, B.,
Heard, A., Horton, L., Howland, J., C., Johnson, R., Jones, C., Kann, L.,
Kartas, A., Klein, J., Lander, T., Lehotzky, J., Lien, C., Locke, K.,
Macdonald, P., Margulis, N., McEwan, P., McGuirk, A., McKernan, K.,
Meltrim, J., Morrow, J., Naylor, J., Norman, C. H., O'Connor, T.,
O'Donnell, P., Peterson, K., Pierre, N., Pollara, V., Riley, R.,
Rothman, D., Roy, A., Santos, R., Severy, P., Strange-Thomann, N.,
Stojanovic, N., Sudramanian, A., Talamas, J., Testa, S., Theodore, J.,
Tirrell, A., Vassiliev, H., Viel, R., Vo, A., Wu, X., Wyman, D., Ye, W. J.,
Zimmer, A. and Zody, W.

TITLE
JOURNAL
Submitted (10-DEC-1999) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Sep 9, 2000 this sequence version replaced gi:6649385.
All repeats were identified using RepeatMasker:
http://ftp.genome.washington.edu/RM/RepeatMasker.html
Smit, A. F. A. & Green, P. (1996-1997)

COMMENT
Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIBR
Web site: http://www-seq.wi.mit.edu
Contact: sequence_submissions@genome.wi.mit.edu
Project Information
Center project name: L3744
Center clone name: 531.E.6
----- Summary Statistics
Sequencing vector: M13; M7815; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.960731
Consensus quality: 186769 bases at least Q40
Consensus quality: 198059 bases at least Q20
Insert size: 210000; agarose-fp
Insert size: 200038; sum-of-contigs
Quality coverage: 4.4 in Q20 bases; agarose-fp
Quality coverage: 4.6 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently
* consists of 22 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
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2852 2951: gap of 100 bp
2952 4977: contig of 2026 bp in length
4978 5077: gap of 100 bp
5078 8300: contig of 3223 bp in length
8301 8400: gap of 100 bp
8401 10751: contig of 2351 bp in length
10752 10852: gap of 100 bp
10853 14527: contig of 3676 bp in length
14528 14627: gap of 100 bp
14628 53554: contig of 38927 bp in length
53555 53654: gap of 100 bp
53655 59471: contig of 5817 bp in length
59472 59571: gap of 100 bp
59572 65624: contig of 6053 bp in length
65625 65724: gap of 100 bp
65725 72213: contig of 6489 bp in length
72214 72313: gap of 100 bp
72314 76349: contig of 4036 bp in length
76350 76450: gap of 100 bp
76451 82044: contig of 5595 bp in length
82045 82144: gap of 100 bp

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misc_feature      /clone_lib="RPOI-11 Human Male BAC"  
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vector_side:left"  
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misc_feature     /note="assembly_fragment"  
gap              10752..10851  
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misc_feature     /note="assembly_fragment"  
gap              14528..14627  
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misc_feature     /note="assembly_fragment"  
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ସାମ

Query Match	38.9%	Score 155.4;	DB 12;	Length 202138;
Best Local Similarity	76.0%	Pred. No. 5.6e-42;		
Matches 203; Conservative	1;	Mismatches 62;	Indels 1;	Gaps 1;

OY	81	ATGCTTGTAATCCAGGACTTCGGAGGCGAAGGTGGGGATATCATCTGAGTCAAGAGA	140
Db	102362	ATGCTTGTAATCCAGCACTTGGAGGCGAAGGGGGGTGATCACTTGAGGTCAAGAGT	102303
OY	141	TCGAGACCATCTGCGCAACATGTTGAAACCCCGTCTTACTAAATAATCAAAAAATAGC	200
Db	102302	TCGAGATCAGTTTACCAACATGGTGAACCTTGTCTCTACTAAATAATCAAAAGATTAGC	102243
OY	201	TGGCATGTGTGGCACACACTGTATGTCCTCAAGTACTCAGAGCCGGAAGTTGAGTGAGC	260
Db	102242	TGGGTGTGTGGCCACGCGCTGTAGTCCCACTACTCAGAGGCTTAGACAGGAGAAATCG	102183
OY	261	TGAGATCCAGAGTGAGCCGAATACACAGATCAGAGTGAG-CAGAGTGAGACKCCGTC	319
Db	102182	CTTGAAACCCAGGAGGCGAGGCTGTGACGTGAGCCAAAGATGGCGACAGAGCAAGATTCCGTC	102122
OY	320	TCAAAAACACACAAAAACAAAAA	346
Db	102122	TCAAAAAATAAAAAATAAAAAGAGAA	102096

RESULT	44
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LOCUS	204493 bp DNA linear PRI 04-FEB-2003
DEFINITION	Homo sapiens chromosome 16 clone CTF-3088G3, complete sequence.
ACCESSION	AC009489
VERSION	AC009489.2 GI:28201477
KEYWORDS	HTG.
SOURCE	Homo sapiens (human)

ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.

REFERENCE 1 (bases 1 to 204493)
 Authors DOE Joint Genome Institute, Stanford Human Genome Center and Los
 Alamos National Laboratory.

TITLE Direct Submission
 JOURNAL Unpublished

REFERENCE 2 (bases 1 to 204493)
 Authors DOE Joint Genome Institute.

TITLE Direct Submission
 JOURNAL Submitted (15-NOV-2001) Production Sequencing Facility, DOE Joint
 Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA

REFERENCE 3 (bases 1 to 204493)
 Authors DOE Joint Genome Institute, Stanford Human Genome Center and Los
 Alamos National Laboratory.

TITLE Direct Submission
 JOURNAL Submitted (04-FEB-2003) DOE Joint Genome Institute, 2800 Mitchell
 Drive, Walnut Creek, CA 94598, USA

COMMENT On Feb 4, 2003 this sequence version replaced gi:16930905.
 Draft Sequence Produced by DOE Joint Genome Institute
 www.jgi.doe.gov
 National Laboratory
 Finishing Completed at Stanford Human Genome Center and Los Alamos
 National Laboratory
 www.hgsc.stanford.edu
 Quality: Phrap Quality >=40 99.8% of Sequence;
 Estimated Total Number of Errors is 0.4.
 NOTE: Shatter libraries failed to verify the dinucleotide repeat
 region 65514-65789. Unsure number of repeat copies 65514-65789.
 Forced join at 65675.

FEATURES
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 repeat copies 65514-65789. Forced join at 65675."

misc_feature
 65514..65789
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 dinucleotide repeat region 65514-65789. Unsure number of
 repeat copies 65514-65789. Forced join at 65675."

ORIGIN
 Query Match 38.9%; Score 155.4; DB 5; Length 204493;
 Best Local Similarity 73.1%; Pred. No. 5.7e-42;
 Matches 198; Conservative 1; Mismatches 72; Indels 0; Gaps 0;

83 GCGGTATATCCAGACTTCGGAGGCCAAGGTGGCGGATCACTGAGTCAAGATC 142
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 14479 GCGGTATATCCAGACTTCGGAGGCCAAGGTGGCGGATCACTGAGTCAAGATC 14538
 |||||
 143 GAGACATCTCTGGCCAAATGTTAAACCCCTTTACTTAAATAAATAATAGCTG 202
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 14539 GAGACATCTCTGGCCAAATGTTAAACCCCTTTACTTAAATAAATAATAGCTG 14558
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 203 GCGCATGTGGACACACCTGTATGTCCTCAAGTCTCAGAGCCGAGATTGACGTG 262
 |||||
 14599 GCGCATGTGGACACACCTGTATGTCCTCAAGTCTCAGAGCCGAGATTGACGTG 14658
 |||||
 263 AGATGGAGATGAGCCGAATATCAGATTCACAGATGAGCAGTGAACCCCTCTCA 322
 |||||
 14659 TGAATCCAGAGAGAGAGAAATGCTTGAACCTCTGGCGGACAGAGCACTCCATCTCA 14718
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 323 AAAACACACACAAAAAACAATTA 353
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 14719 AAAACACACACAAAAAACAATTA 14749
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RESULT 45
 AL355388
 LOCUS AL355388
 DEFINITION Human DNA sequence from clone RP11-336K24 on chromosome 1 Contains

the 5' end of the RIT1 gene for Ras-like without CAAX 1, the gene
 for a novel protein (KIAA0907), the ARHGAP2 gene for Rho/rac
 guanine nucleotide exchange factor (GEF) 2, four novel genes, the
 SSR2 gene for signal sequence receptor beta (translocin-associated
 protein beta), the Clorf6 gene for chromosome 1 open reading frame
 6, the gene for mitogen-activated protein-binding
 protein-interacting protein (MAPBIP), the RAB25 gene for RAB25
 (member RAS oncogene family), the 5' end of the LMNA gene for Lamin
 A/C and three CpG islands, complete sequence.

ACCESSION AL355388
 VERSION AL355388.30, GI:29367464
 KEYWORDS HTG; ARHGAP2; Clorf6; KIAA0907; LMNA; MAPBIP; RAB25; RIT1; SSR2.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.

REFERENCE 1 (bases 1 to 205463)
 Authors Hall, R.

TITLE Direct Submission
 JOURNAL Submitted (13-MAY-2005) Wellcome Trust Sanger Institute, Hinxton,
 Cambridgeshire, CB10 1SA, UK. E-mail enquiries: vegas@sanger.ac.uk
 Clone requests: clonerequest@sanger.ac.uk
 On Mar 29, 2003 this sequence version replaced gi:28446036.
 The following abbreviations are used to associate primary accession
 numbers given in the feature table with their source databases:
 Emi, EMBL; Sw, SWISSPROT; Tr, TREMBL; Wp, WORMPEP; Information
 on the WORMPEP database can be found at
 http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence
 was generated from part of bacterial clone contigs of human
 chromosome 1, constructed by the Sanger Centre Chromosome 1 Mapping
 Group. Further information can be found at
 http://www.sanger.ac.uk/HGP/Chr1
 RP11-336K24 is from the library RP11-11.2 constructed by the group
 of Pieter de Jong. For further details see
 http://www.choxi.org/bacpac/home.htm
 VECTOR: pBAC3.6

----- Genome Center
 Center: Wellcome Trust Sanger Institute
 Center code: SC
 Web site: http://www.sanger.ac.uk
 Contact: vegas@sanger.ac.uk

 This sequence was finished as follows unless otherwise noted: all
 regions were either double-stranded or sequenced with an alternate
 chemistry or covered by high quality data (i.e., phred quality >=
 30); an attempt was made to resolve all sequencing problems, such
 as compressions and repeats; all regions were covered by at least
 one subclone; and the assembly was confirmed by restriction digest,
 except on the rare occasion of the clone being a YAC.

FEATURES
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 /organism="Homo sapiens"
 /mol_type="genomic DNA"
 /db_xref="taxon:9606"
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 /clone_1fb="RP11-11.2"
 1
 /note="Clone left end: RP11-336K24"
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 /locus_tag="RP11-10106.4-004"
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 /locus_tag="RP11-10106.4-004"
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 /note="match: ESTs: Em:BX644870.1"
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 complement(4130..4186),
 complement(AL139128..24:140824..141015),
 complement(AL139128..24:134321..137131))

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/locus_tag="RP11-10106.4-001"
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complement(AL139128..24:140824..141015),
complement(AL139128..24:134331..137131))
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match: CDNAS: Em:AF084462.1 Em:U71203.1 Em:U78165.1
Em:X07566.1"
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complement(4130..4186),
complement(AL139128..24:141244..141317),
complement(AL139128..24:141116..141123),
complement(AL139128..24:140824..141015),
complement(AL139128..24:136911..137131))
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complement(4130..4186),
complement(AL139128..24:141244..141317),
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complement(AL139128..24:140824..141015),
complement(AL139128..24:136911..137131))
/gene="RPT1"
/locus_tag="RP11-10106.4-003"
/product="Ras-like without CAAX 1"
/notes="match: ESTs: Em:BB782613.1"
/join(complement(4558..4595),complement(4336..4484),
complement(4130..4186),
complement(AL139128..24:141244..141317),
complement(AL139128..24:140824..141015),
complement(AL139128..24:136787..137131))
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/locus_tag="RP11-10106.4-002"
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complement(4130..4186),
complement(AL139128..24:141244..141317),
complement(AL139128..24:140824..141015),
complement(AL139128..24:136787..137131))
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complement(AL139128..24:140824..141015),
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/product="Ras-like without CAAX 1"
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complement(AL139128..24:136901..137131))
/gene="RPT1"
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RDQYRABEGFLICSTIDRRSFHVEKCOLIYRVRTDTPPVIVGNKSLDKQIRO
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complement(AL139128..24:140824..141015),
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/notes="match: proteins: Sw:P70426 Sw:Q92963"
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/db_xref="GI:55663543"
/db_xref="InterPro:IPR001806"
/db_xref="InterPro:IPR005225"
/translation="MDSGRPVGSCSSPAGLSREYKLVMLGAGVGSAMTQFISH
RPEDHPPTEDAVKIRIRIDDEPANLIDLTAGAEFTTAMRDQYRABEGFLICVSI
TDRSFHVEKCOLIYRVRTDTPPVIVGNKSLDKQIROVTKREGLAREFSCPF
ETSAARYYIDVFNALVREIRKEKAVLAIEKSKSPKNSVWKRLKSPFRKKDSV
"
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11179..11352,15055..15308,15541..15598,17307..17367,
19312..19523,20356..20519,20784..20836,22976..23055,
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19312..19523,20356..20519,20784..20836,22976..23055,
23392..23520,27313..27529,28016..28077))
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Em:BC006621.1 Em:BC062637.1"
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15055..15308,15541..15598,17307..17367,19312..19523,
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27313..27529,28016..28079))
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/locus_tag="RP11-336K24.1-003"
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/locus_tag="RP11-336K24.1-003"
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Query Match 36.9%; Score 155.4; DB 5; Length 205463;
 Best Local Similarity 74.7%; Pred. No. 5.7e-42;
 Matches 207; Conservative 1; Mismatches 67; Indels 2; Gaps 1;

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QY 81 ATGCTGTAATCCGACGACTTCGGAGGCCCAAGTGGCGGATACCTGAGGTAAAGGA 140
Db 177219 ACGCCTGTAATCCGACGACTTCGGAGGCCAGAGGGGTGATACCTGAGGTAAAGGT 177278

QY 141 TCGAGACCATCTGCGCCCAACATGTTGAACCCCGCTTTACTTAAATAACAAAATATAGC 200
Db 177279 TCGAGACCATCTGCGCCCAACATGTTGAACCCCGCTTTACTTAAATAACAAAATATAGC 177338

QY 201 TGGGATGATGGACACACCTGTATGTCCAGTACTCTCAGAGCCGAGATTGCAGTGAGC 260
Db 177339 CGAGCATGTGGCAGACCGCTGTATGTCCAGTACTCTCAGAGCCGAGATTGCAGTGAGC 177396

QY 261 TGAATGCGCAAGTGAAGCGCAATTCACAGATCACAGAGTGAGCAGAGTGAAGCCGCT 320
Db 177397 TGTCTTGAACCCGAGAGGGGAGATTGTCAGTGAATGATGCGAGAGTGAAGCTCGTCC 177456

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Db	11847	GGAAGTTGTATGATGACCGCATTCGCACACTGCATCCACCTCGGGCAGACAGTGCAGAC	115416
Ox	314	KCGTCTCAAAAACAACACAAAAAACAATAAGA	355
Db	11547	TTCGTCTCAAAAAAAAAAAAAAAAAAAAAA	11588
RESULT 47			
AC079456/c			
LOCUS			
DEFINITION	Homo sapiens 12 BAC RPL1-206B11 (Roswell Park Cancer Institute Human BAC library) complete sequence.		
ACCESSION	AC079456		
VERSION	AC079456.28		
KEYWORDS	HTG.		
SOURCE	Homo sapiens (human)		
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.		
REFERENCE	1 (bases 1 to 177640)		
AUTHORS	Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-osman,F.R., Allen,C., Alshrooke,S.L., Amaralunge,H.C., Are,J.R., Ayele,M., Banks,T., Barbara,J., Benton,J., Binage,K., Blankenburg,K., Bonnin,D., Bouck,J.J., Bowie,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P., Buhey,C., Burcher,P., Burkett,C., Butrell,K.L., Byrd,N.C., Carion,T.F., Carter,M., Cavazos,S.R., Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Z., Chiu,D., Chowhry,I., Christopoulos,C., Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.I., David,R., Davila,M.L., Davis,C., Davy-Carroll,L., Dederich,D.A., Delaney,K.R., Delgado,O., Dem,A.U.L., Ding,Y., Dinm,H.H., Douthwaite,K.J., Draper,H., Dugan-Rocha,S., Dudin,K.J., Barnhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Emerling,S., Escotto,M., Falls,T., Ferraguto,D., Flagg,N., Ford,J., Foster,P., Franz,P., Gabisi,A., Gao,J., Garcia,A., Garner,T., Garza,N., Gill,R., Gorrell,J.H., Guevara,W., Gunatirne,P., Hale,S., Hamilton,K., Han,U., Harris,C., Harris,K., Hart,M., Havlik,P., Hawes,A., Hernandez,J., Hernandez,O., Hodgson,A., Hognes,M., Hollway,C., Hollins,B., Homsi,F., Howard,S., Huber,J., Hulik,S., Home,J., Ioshilovs,I., Jackson,L.E., Jacobson,B., Jia,Y., Johnson,R., Jolivets,S., Jondah,S., Karlsson,E., Kelly,S., King,L., Kovach,J., Kover,C., Kravovic,J., Kureshi,A., Landry,N., Leal,B., Lee,E., Lewis,L.C., Lewis,L., Li,U., Li,Z., Lichtarge,O., Lien,C., Liu,Y., Liu,W., Loulesged,H., Lozado,R.J., Lu,X., Lucier,A., Lucier,R., Luna,R., Ma,J., Maheshwari,M., Mapua,P., Marondei,I., Martin,R., Martindale,A., Martinez,E., Massey,E., Mashney,E., McLeod,M.P., Meador,M., Mei,G., Merscher,S., Metzker,M., Miller,A., Miner,G., Miner,Z., Mitchell,T., Monabhat,K., Montgomery,K.T., Morgan,M., Morris,S., Moser,M., Neal,D., Nelson,D., Newton,S., Newton,N., Nguyen,A., Nguyen,N., Nguyen,N., Nickerson,E., Nwokhekwo,S., Oguh,M., Okunolu,G., Orangunye,N., Oviedo,R., Pace,A., Payton,B., Peery,J., Perez,L., Peters,L., Pickens,R., Prims,E., Pul,L., Quiles,M., Ren,Y., Rivers,M., Rojaya,A., Rojudokani,I., Rolfe,M., Ruiz,S., Savory,G., Scherger,S., Scott,G., Shen,H., Shum,C., Shooshari,N., Sisson,I., Stoegegen,E., Sonalke,T., Sparks,A., Stanley,H., Stone,H., Sutton,A., Svatek,A., Tabor,P., Tamerisa,A., Tamerisa,K., Tang,H., Tansey,J., Taylor,C., Taylor,T., Terfrod,B., Thomas,N., Thomas,S., Umani,K., Vaequez,L., Vera,V., Villalon,D., Vinson,R., Wang,Q., Wang,S., Ward-Moore,S., Warren,R., Washington,C., Watley,K., Williams,G., Williamson,A., Wleczyk,R., Wooden,S., Worley,K., Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Kuchelapati,R., Weinstein,G., and Gibbs,R.		
JOURNAL	Unpublished		
REFERENCE	2 (bases 1 to 177640)		
AUTHORS	Worley,K.C.		
TITLE	Direct Submision		
JOURNAL	Submitted (02-SEP-2000) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA		
REFERENCE	3 (bases 1 to 177640)		
AUTHORS	Worley,K.C.		

	REFERENCE	JOURNAL	TITLE	Direct Submission Submitted (30-SEP-2001) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
	REFERENCE	AUTHORS	TITLE	Worley,K.C. Direct Submission Submitted (02-OCT-2001) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
	REFERENCE	AUTHORS	TITLE	Worley,K.C. Direct Submission Submitted (07-MAR-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
	REFERENCE	AUTHORS	TITLE	Worley,K.C. Direct Submission Submitted (26-JUN-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
	REFERENCE	AUTHORS	TITLE	Worley,K.C. Direct Submission Submitted (29-AUG-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
	REFERENCE	AUTHORS	TITLE	Worley,K.C. Direct Submission Submitted (22-OCT-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
	COMMENT	JOURNAL	TITLE	On Oct 22, 2002 this sequence version replaced gi:15809129. INFORMATION: http://www.hgsc.bcm.tmc.edu/ or email g-help@bcm.tmc.edu
				CLONE LENGTH: This sequence does not necessarily represent the entire insert of this clone. Overlapping regions of clones are only sequenced and submitted once, so the sequence for the remainder of the insert may be found in the record for the adjacent clones. Overlapping clones are noted at the beginning and end of the Features listing.
				ANNOTATION OF FEATURES: STS are identified using ePCR (Genome Res. 7:541-550) searches of a local database that includes entries from dbSTS, GDB, and local mapping efforts. Repeats are identified using RepeatMasker (A. Smit and P. Green, unpublished.) for Human and Mouse sequences. Genes and Region of sequence similarity are identified by BLAST (Nuc. Acids Res. 25:3389-3402) similarity (expect < 1e-34) to the EST and cDNA sequences. Genes demonstrate at least two exons flanked by consensus splice sites that maintained sequence continuity across the splice junctions. Sequences that are not identical matches are annotated as similar.
				SEQUENCING READ COVERAGE:Sequencing is completed to a minimum standard of double strand coverage with a minimum of 2 clones and 2 reads with no ambiguities or 2 chemistries with a minimum of 2 clones and 3 reads with no ambiguities. If the sequence quality for a region does not meet this standard, it will be indicated in the annotation as low Coverage.
				QUALITY OF INDIVIDUAL BASES:This sequence meets stringent quality standards - estimated error rate less than 1 per 10,000 bases. Reports of lowest quality individual bases and measures of base quality are listed below. Description of the metrics can be found at URL: http://www.hgsc.bcm.tmc.edu:8088/quality.info/genbank.annotation.html .
				Location/Qualifiers

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	repeat_region	10626..10660		
		/rpt_family="AT-rich"		
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		/rpt_family="MLT1J2"		
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	repeat_region	16953..17120		
Query Match	38.8%;	Score 155.2;	DB 5;	Length 177640;
Best Local Similarity	73.7%;	Pred. No. 6.2e-42;		
Matches 196;	Conservative 1;	Mismatches 69;	Indels 0;	Gaps 0;
81	ATGCGCTTAATCCAGACACTTGGGAGGCCAAGGTGGCGGATCACTGAGGTCAAGAA	140		
DB	97632 ATGCGCTTAATCCAGACACTTGGGAGGCCAAGAAAGGTGGATCACTGAGGTCAAGAA	97573		
141	TCGAGACCATCTGGCCACAGTGGTGAACCCCGTCTTTACTGAAAAATACAAAAAATAGC	200		

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DB      97572 TCAGAGCCAGCGTGGCAACATGCTAAACCTGTCTCTACTTAAACTCAAAAAATTAC 97513
QY      201 TGGGCACTGTGGCAACACCTCTAGTCCAGCTACTCAGAGCCGAGATTCCAGTAC 260
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QY      321 CAAAAACAACAACAAAAACAAAAA 346
DB      97392 CAAAAACAACAACAAAAACAAAAA 97367

RESULT 48
AC068929/c AC068929 178079 bp DNA linear HTG 07-DEC-2000
DEFINITION Homo sapiens chromosome 1 clone RP11-206C14 map 1, WORKING DRAFT
SEQUENCE, 11 unordered pieces.
ACCESSION AC068929
VERSION AC068929.3 GI:11597096
KEYWORDS HTG; HTGS PHASE1; HTGS_DRAFT.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 178079)
Birtren,B., Linton,L., Nusbaum,C. and Lander,E.
Homo sapiens chromosome 1, clone RP11-206C14
Unpublished
2 (bases 1 to 178079)
Birtren,B., Linton,L., Nusbaum,C., Lander,E., Adraham,H., Allen,N.,
Anderson,S., Baldwin,J., Barna,N., Bastien,V., Bede,F.,
Boudislavsky,L., Boukhgalter,B., Brown,A., Burkett,G.,
Campopiano,A., Castie,A., Choquel,Y., Colangelo,M., Collins,S.,
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Dodge,S., Domingo,M., Doyle,M., Ferrelle,P., Fitzhugh,W., Gage,D.,
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Stange-Thomann,N., Stojanovic,N., Subramanian,A., Talamas,J.,
Teefaye,S., Theodore,J., Tirrell,A., Travers,M., Trigilio,J.,
Vasilev,H., Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J.,
Young,G., Zainoun,J., Zimmer,A. and Zody,M.
Direct Submission
Submitted (12-MAY-2000) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Dec 7, 2000 this sequence version replaced gi:8671969.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html

----- Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIBR
Web site: http://www-seq.wi.mit.edu
Contact: sequence_submissions@genome.wi.mit.edu

----- Project Information
Center project name: L7679
Center clone name: 206_C14
----- Summary Statistics
Sequencing vector: M13, M77815; 42% of reads
Sequencing vector: Plasmid, n/a; 58% of reads

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Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.960731
Consensus quality: 172732 bases at least Q40
Consensus quality: 175502 bases at least Q30
Consensus quality: 176567 bases at least Q20
Insert size: 170000; agarose-fp
Insert size: 177079; sum-of-contigs
Quality coverage: 6.2 in Q20 bases; agarose-fp
Quality coverage: 5.9 in Q20 b.
* NOTE: This is a 'working draft' sequence. It currently
* consists of 11 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

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1 8548: contig of 8548 bp in length
* 8549 8648: gap of 100 bp
* 8649 9685: contig of 1037 bp in length
* 9686 9785: gap of 100 bp
* 9786 11207: contig of 1422 bp in length
* 11208 11307: gap of 100 bp
* 11308 14537: contig of 3230 bp in length
* 14538 14637: gap of 100 bp
* 14638 22686: contig of 8049 bp in length
* 22687 22787: gap of 100 bp
* 22788 34297: contig of 11511 bp in length
* 34298 34397: gap of 100 bp
* 34398 47850: contig of 13453 bp in length
* 47851 47951: gap of 100 bp
* 47952 67280: contig of 19330 bp in length
* 67281 67380: gap of 100 bp
* 67381 88352: contig of 20972 bp in length
* 88353 88452: gap of 100 bp
* 88453 151825: contig of 63373 bp in length
* 151826 151925: gap of 100 bp
* 151926 178079: contig of 26154 bp in length.
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```


ORIGIN

1. The first step in the process of creating a new product is to identify a market need. This involves conducting market research to understand what consumers want and what problems they are facing. Once a need is identified, the next step is to develop a concept that addresses this need. This is often done through brainstorming sessions with a team of designers and engineers. The concept is then refined through prototyping and testing, ensuring that it meets the requirements of the market. Finally, the product is launched into the market, and its performance is monitored to ensure it continues to meet consumer needs.

[illegible]

301 AAAAAAAAAAAAAA

130429 CCGCTCTGGTGA CTCA CACCCTGTAGTCC CAGCTACTCAGGAGGCTGAGGCAGGAGAATGG 130430

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

321 AAAAAAAAAAAAAAAAAAAAAA 346

130309 CAAAACAAAACAAAACAAA 130284

U162384

Human DNA sequence from clone RP11-218I7 on chromosome 9 Contains

a novel gene, a novel gene and a CpG island, complete sequence.

VERSION AL162384.14 GI:13274331

SOURCE Homo sapiens (human)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE 1 (bases 1 to 68465)

TITLE	Direct Submission	Submitted (12 May 2005)	Final Score	Final Rank	Final Score	Final Rank
Submitted (12 May 2005)						

Cambridgeshire, CB10 1SA, UK. E-mail enquiries: vega@sanger.ac.uk
 Cloning requests: cloningrequest@sanger.ac.uk

On Mar 12, 2001 this sequence version replaced g1:12831806.

numbers given in the feature table with their source databases: Em: EMBL; Sw: SWISSPROT; Tr: TREMBL; Wp: WORMPEP. Information on the WORMPEP database can be found at http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence

Source

This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30): an attempt was made to resolve all sequencing problems, such as compressions and repeats: all regions were covered by at least one subclone, and the assembly was confirmed by restriction digest, except on the rare occasion of the clone being a YAC.

Location/Qualifiers
 1..68465

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/organism="Homo sapiens"
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COMMENT

On Jan 1, 2003 this sequence version replaced gi:23264934.
 INFORMATION: <http://www.hgsc.bcm.tmc.edu/> or email
gc-help@bcm.tmc.edu

CLONE LENGTH: This sequence does not necessarily represent the entire insert of this clone. Overlapping regions of clones are only sequenced and submitted once, so the sequence for the remainder of the insert may be found in the record for the adjacent clones. Overlapping clones are noted at the beginning and end of the features listing.

ANNOTATION OF FEATURES:

STSs are identified using ePCR (Genome Res. 7:541-550) searches of a local database that includes entries from dbSTS, GDB, and local mapping efforts.

Repeats are identified using RepeatMasker (A. Smit and P. Green, unpublished.) for Human and Mouse sequences.

Genes and Region of sequence similarity are identified by BLAST (Nuc. Acids Res. 25:3389-3402) similarity (expect < 1e-34) to the EST and cDNA sequences. Genes demonstrate at least two exons flanked by consensus splice sites that maintained sequence continuity across the splice junctions. Sequences that are not identical matches are annotated as similar.

SEQUENCING READ COVERAGE:sequencing is completed to a minimum standard of double strand coverage with a minimum of 2 clones and 2 reads with no ambiguities or 2 chemistries with a minimum of 2 clones and 3 reads with no ambiguities. If the sequence quality for a region does not meet this standard, it will be indicated in the annotation as Low Coverage.

QUALITY OF INDIVIDUAL BASES: this sequence meets stringent quality standards - estimated error rate less than 1 per 10,000 bases. Reports of lowest quality individual bases and measures of base quality are listed below. Description of the metrics can be found at URL: <http://www.hgsc.bcm.tmc.edu/quality.info/genbank.annotation.html>.

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ALIGNMENTS

RESULT 1
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XX: 26-AUG-2004 (first entry)
XX: Human glycoprotein VI (platelet) (GP6,GP1V,GPVI) genomic DNA.
DE

XX	breast cancer; cytosolic; gene therapy; human; platelet glycoprotein VI;
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KW	single nucleotide polymorphism.
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DB 47461 CCAGGACATGACATGCTGATGCTGATATCCAGCATTCGAGAGCCCAAGTGGCG 47520
QY 121 GATCACTGAGGTCAAGATCGAGACATCTCTGGCCCAACTGGTGAACCCCGCTTTA 180
DB 47521 GATCACTGAGGTCAAGATCGAGACATCTCTGGCCCAACTGGTGAACCCCGCTTTA 47580
QY 181 CTAATAATACAAAATAATAGCTGGGATGTTGGACACACCTGTATGCCAGCTACTCAGG 240
DB 47581 CTAATAATACAAAATAATAGCTGGGATGTTGGACACACCTGTATGCCAGCTACTCAGG 47640
QY 241 AGCCGAGATTGACGTAGCTGATCGCAGAGTGAAGCCGAATACAGATCAGAGAGTG 300
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256 TGAAGTGAATCGCAGAGTGAAGCCGAATACAGATCAACAGATGACGAGATGAGAC	315	8352	TGAGCCGAAATGACCACTACCTCCAGCTGTGGTGAACAGAGGAGCTGTGTCTCCA	8411		
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PR 05-JAN-2001; 2001US-0259678P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Barash SC, Ruben SM;
XX
XX WPI; 2001-483426/52.
DR
XX
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
XX Disclosure; SEQ ID NO 38713; 3071pp + Sequence Listing; English.
PS
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XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
CC amino acid sequences given in AAK82170 to AAK91921. (I) have cytosolic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patient's own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/haematopoietic-related diseases, especially
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC to AAK87694 represent human immune/haematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAK82169
CC represent sequences used in the exemplification of the present invention
XX
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Best Local Similarity 73.9%; Pred. No. 1e-33;
Matches 201; Conservative 0; Mismatches 71; Indels 0; Gaps 0;
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DT 07-NOV-2001 (first entry)
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DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:41973.
XX
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;

KY cytostatic; gene therapy; vaccine; metastasis; ds.
XX Homo sapiens.
XX WO200157182-A2.
XX 09-AUG-2001.
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PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249246P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250311P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251088P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251858P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.

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XX (HUMA-) HUMAN GENOME SCI INC.
XX Rosen CA, Barash SC, Ruben SM;
XX WPI; 2001-483426/52.
XX
XX Nucleic acid encoding human immune/hematopoietic antigen polypeptides,
XX useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
XX Disclosure; SEQ ID NO 41973; 3071bp + Sequence Listing; English.
XX
XX AA64951 to AA64702 encode the human immune/hematopoietic antigen (I)
XX amino acid sequences given in AA682170 to AA691921. (I) have cytosolic
XX activity, and can be used in gene therapy and vaccine production. (I)
XX proteins and polynucleotides may be used in the prevention, diagnosis and
XX treatment of diseases associated with inappropriate (I) expression. For
XX example, they may be used to treat disorders associated with decreased
XX expression by rectifying mutations or deletions in a patient's genome
XX that affect the activity of (I) by expressing inactive proteins or to
XX supplement the patient's own production of (I). Additionally, (I)
XX polynucleotides may be used to produce the secreted (I), by inserting the
XX nucleic acids into a host cell and culturing the cell to express the
XX protein. (I) proteins and polynucleotides may be used to prevent,
XX diagnose and treat immune/hematopoietic-related diseases, especially
XX cancers and cancer metastases of hematopoietic-derived cells. AA64703
XX to AA687694 represent human immune/hematopoietic antigen genomic
XX sequences from the present invention. AA654942 to AA654950 and AA682169
XX represent sequences used in the exemplification of the present invention
XX
XX Sequence 16163 BP; 4414 A; 3239 C; 3448 G; 5062 T; 0 U; 0 Other;
XX
XX Query Match 39.6%; Score 158.4; DB 4; Length 16163;
XX Best Local Similarity 73.9%; Pred. No. 1e-33;
XX Matches 201; Conservative 0; Mismatches 71; Indels 0; Gaps 0;
XX
XX 76 GCTGATGCTGATATCCAGACTTCGAGAGCCGCAAGTGGCGGATCAGTGAAGTCA 135
XX ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
XX 7992 GGTTCACGCGCTGTATCCAGCACTCTGGAGGCGGAGCGGGTCACTGATGCA 7933
XX ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
XX 136 AGAGATGAGACCACTCTGGCCAAACATGATGAAACCCCGCTTTACTAAAAATACAAAA 195
XX ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
XX 7932 GGAATTTAGATGATGCTGGCCAAACATGATGAAACCCCGCTTTACTAAAAATACAAAA 7873
XX ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
XX 196 ATAGTGGGCACTGTGGCAACACTGTAGTCCAGCTACTCAGAGCCGAGATTTGAG 255
XX ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
XX 7872 CCAGCTGGGTGTGGGTACACGCTTGTATCCAGCTACTCTGAGGCGGAGGTTTGAG 7813
XX ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
XX 256 TGAGCTGATGCGAGAGTGAAGCGGAATTCACAGATCAGAGTGAAGTGAAGCXC 315
XX ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
XX 7812 TGAGCCGAACCTGCACCACTACCTCCAGCTGGGTGACAGAGGAGACTGTCTCCA 7753
XX ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
XX 316 CGTCTCAAAAAACAACAAAAA 347
XX ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
XX 7752 GGAAGAAAAA 7721
XX
XX RESULT 5
XX AAL03817
XX ID AAL03817 standard; DNA; 16163 BP.
XX
XX AAL03817;
XX
XX 21-NOV-2001 (first entry)
XX
XX Human reproductive system related antigen DNA SEQ ID NO: 6505.
XX
XX Human, reproductive system related antigen; reproductive system disorder;
XX cancer; gene therapy; ds.
XX
XX Homo sapiens.
XX
XX MO20015320-A2.
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XX 02-AUG-2001.
XX
XX 17-JAN-2001; 2001KO-US001339.
XX
XX 31-JAN-2000; 2000US-0179065P.
XX 04-FEB-2000; 2000US-0180628P.
XX 24-FEB-2000; 2000US-0184664P.
XX 02-MAR-2000; 2000US-0186350P.
XX 16-MAR-2000; 2000US-0189874P.
XX 17-MAR-2000; 2000US-0190076P.
XX 18-APR-2000; 2000US-0198123P.
XX 19-MAY-2000; 2000US-0205515P.
XX 07-JUN-2000; 2000US-0209467P.
XX 28-JUN-2000; 2000US-0214886P.
XX 30-JUN-2000; 2000US-0215135P.
XX 07-JUL-2000; 2000US-0216647P.
XX 07-JUL-2000; 2000US-0216880P.
XX 11-JUL-2000; 2000US-0217487P.
XX 11-JUL-2000; 2000US-0217496P.
XX 14-JUL-2000; 2000US-0218290P.
XX 26-JUL-2000; 2000US-0220963P.
XX 26-JUL-2000; 2000US-0220964P.
XX 14-AUG-2000; 2000US-0224518P.
XX 14-AUG-2000; 2000US-0224519P.
XX 14-AUG-2000; 2000US-0225213P.
XX 14-AUG-2000; 2000US-0225214P.
XX 14-AUG-2000; 2000US-0225266P.
XX 14-AUG-2000; 2000US-0225267P.
XX 14-AUG-2000; 2000US-0225268P.
XX 14-AUG-2000; 2000US-0225447P.
XX 14-AUG-2000; 2000US-0225757P.
XX 14-AUG-2000; 2000US-0225758P.
XX 14-AUG-2000; 2000US-0225759P.
XX 18-AUG-2000; 2000US-0226279P.
XX 22-AUG-2000; 2000US-0226681P.
XX 22-AUG-2000; 2000US-0226868P.
XX 23-AUG-2000; 2000US-0227009P.
XX 30-AUG-2000; 2000US-0228924P.
XX 01-SEP-2000; 2000US-0229287P.
XX 01-SEP-2000; 2000US-0229343P.
XX 01-SEP-2000; 2000US-0229344P.
XX 01-SEP-2000; 2000US-0229345P.
XX 05-SEP-2000; 2000US-0229509P.
XX 05-SEP-2000; 2000US-0229513P.
XX 06-SEP-2000; 2000US-0230437P.
XX 08-SEP-2000; 2000US-0231242P.
XX 08-SEP-2000; 2000US-0231243P.
XX 08-SEP-2000; 2000US-0231244P.
XX 08-SEP-2000; 2000US-0231413P.
XX 08-SEP-2000; 2000US-0231414P.
XX 08-SEP-2000; 2000US-0232080P.
XX 08-SEP-2000; 2000US-0232081P.
XX 12-SEP-2000; 2000US-0231968P.
XX 14-SEP-2000; 2000US-0232397P.
XX 14-SEP-2000; 2000US-0232398P.
XX 14-SEP-2000; 2000US-0232399P.
XX 14-SEP-2000; 2000US-0232400P.
XX 14-SEP-2000; 2000US-0232401P.
XX 14-SEP-2000; 2000US-0233063P.
XX 14-SEP-2000; 2000US-0233064P.
XX 14-SEP-2000; 2000US-0233065P.
XX 21-SEP-2000; 2000US-0234223P.
XX 21-SEP-2000; 2000US-0234274P.
XX 25-SEP-2000; 2000US-0234997P.
XX 26-SEP-2000; 2000US-0235484P.
XX 27-SEP-2000; 2000US-0235834P.
XX 27-SEP-2000; 2000US-0235836P.
XX 29-SEP-2000; 2000US-0236327P.
```


Claim 1; SEQ ID NO 1268; 245bp; English.

The invention relates to recombinant carcinoma associated (CA) nucleic acid sequences from mouse and human (AD801482-ADA03094), and to recombinant carcinoma associated proteins (CAP) encoded by them. The invention also encompasses expression vectors and host cells comprising a CA nucleic acid, a polypeptide (especially an antibody) that specifically binds to the protein, and a biochip comprising CA nucleic acid or fragments thereof. The sequences of the invention were identified using oncogenic retroviruses, which insert into the genome of the host organism at random. Many of these do not carry transduced host oncogenes or pathogenic trans-acting viral genes, meaning that cancer incidence is a direct consequence of the effects of proviral integration into host protooncogenes. The CA nucleic acid sequences can be used to diagnose carcinoma (especially breast cancer, prostate cancer, lymphoma or leukemia) or a propensity to carcinoma by determination of the sequence of a CA gene, or by determination of CA gene expression in particular tissues. CA nucleic acids, proteins and antibodies are also useful as therapeutic agents and in screening and evaluating drug candidates. The present sequence represents a specifically claimed human CA nucleic acid sequence of the invention. Note: The complete sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences).

Sequence 96593 BP; 25039 A; 20903 C; 22979 G; 27672 T; 0 U; 0 Other;

Query Match 39.6%; Score 158.4; DB 9; Length 96593;
Best Local Similarity 75.0%; Pred. No. 1.8e-33;

Matches 216; Conservative 1; Mismatches 57; Indels 14; Gaps 1;

```
QY 81 ATGGCTTAATCCAGACCTTGGAGGCGCAAGGTGGGCGGATCACCTGAGTCAAGAGA 140
DB 18217 ACGGCTTAATCCAGACCTTGGAGGCGCAAGGTGGGCGGATTTCTGAGGTCAAGAGT 18276
QY 141 TCGAGACCATCTGCGCAACATGTGTAACCCCGTCTTTACTAATAAATACAAAATAGC 200
DB 18277 TCAAGATCAGCTTGCGCAACATGTGTAACCCCGTCTTTACTAATAAATACAAAATAGC 18336
QY 201 TGGGCATGTGGGCAACACCTGTAGTCCAGCTACTCAGAGGCGGAGATTGCAGTAGC 260
DB 18337 TGGGCATGTGGGCGGCGGACCTGTAGTCCAGCTACTCAGAGGCGGAGGAATCG 18396
QY 261 TGAATGCGCAG-----AGTAGCCGGAATCACAAGATCACAAGAGTGAGCAGA 306
DB 18397 CTTGAATCCAGGCGGCGGAGGTTGCAGTAGGCGGAGATCGACAGCTTGGGTGCAAGC 18456
QY 307 GTGAGACKCCGCTCAAAAACACAAACAAAACAAAACCAATAG 354
DB 18457 GTGAGACTTCATCTCAAAAACAAAACAAAACAAAACCAACGATG 18504
```

RESULT 7

ADB72488 ID ADB72488 standard; DNA; 96593 BP.

AC ADB72488;

DT 04-DEC-2003 (first entry)

DE Human IRF2 gene.

XX human; ds; cytosratic; gene therapy; vaccine; carcinoma; lymphomas;

XX cancer; neoplasm; adenocarcinoma; sarcoma; gene.

XX Homo sapiens.

XX WO2003008583-A2.

XX 30-JAN-2003.

XX 26-DEC-2001; 2001WO-US051291.

PR 02-MAR-2001; 2001US-00798586.
PR 23-OCT-2001; 2001US-00004113.
PR 08-NOV-2001; 2001US-00052482.
PR 30-NOV-2001; 2001US-00997722.
PR 20-DEC-2001; 2001US-00034650.

PA (SAGR-) SAGRES DISCOVERY.

PI Morris DW, Engelhard EK;

DR WPI; 2003-229337/23.

PT New recombinant nucleic acid, useful for treating carcinomas, lymphomas, cancers, neoplasm, adenocarcinoma, or sarcomas.

PS Claim 1; SEQ ID NO 316; 2304pp; English.

XX The invention relates to a novel recombinant nucleic acid comprising a CC nucleotide sequence selected from any of the 660 sequences fully defined CC in the specification. A polynucleotide of the invention has cytosratic CC activity, and may have a use in gene therapy, or in a vaccine. The CC recombinant nucleic acids and polypeptides are useful for treating CC carcinomas, e.g. lymphomas, cancers, neoplasm, adenocarcinoma, and CC sarcomas. The present sequence represents a human gene of the invention.

SO Sequence 96593 BP; 25039 A; 20903 C; 22979 G; 27672 T; 0 U; 0 Other;

Query Match 39.6%; Score 158.4; DB 10; Length 96593;
Best Local Similarity 75.0%; Pred. No. 1.8e-33;

Matches 216; Conservative 1; Mismatches 57; Indels 14; Gaps 1;

```
QY 81 ATGGCTTAATCCAGACCTTGGAGGCGCAAGGTGGGCGGATCACCTGAGTCAAGAGA 140
DB 18217 ACGGCTTAATCCAGACCTTGGAGGCGCAAGGTGGGCGGATTTCTGAGGTCAAGAGT 18276
QY 141 TCGAGACCATCTGCGCAACATGTGTAACCCCGTCTTTACTAATAAATACAAAATAGC 200
DB 18277 TCAAGATCAGCTTGCGCAACATGTGTAACCCCGTCTTTACTAATAAATACAAAATAGC 18336
QY 201 TGGGCATGTGGGCAACACCTGTAGTCCAGCTACTCAGAGGCGGAGATTGCAGTAGC 260
DB 18337 TGGGCATGTGGGCGGCGGACCTGTAGTCCAGCTACTCAGAGGCGGAGGAATCG 18396
QY 261 TGAATGCGCAG-----AGTAGCCGGAATCACAAGATCACAAGAGTGAGCAGA 306
DB 18397 CTTGAATCCAGGCGGCGGAGGTTGCAGTAGGCGGAGATCGACAGCTTGGGTGCAAGC 18456
QY 307 GTGAGACKCCGCTCAAAAACACAAACAAAACAAAACCAATAG 354
DB 18457 GTGAGACTTCATCTCAAAAACAAAACAAAACAAAACCAACGATG 18504
```

RESULT 8

ADC85230 ID ADC85230 standard; DNA; 96593 BP.

AC ADC85230;

DT 01-JAN-2004 (first entry)

DE Human Irf2 genomic sequence.

XX Cyrosratic; gene therapy; vaccine; cancer; carcinoma-associated gene; CA;

XX secreted; transmembrane; intracellular; ds.

XX Homo sapiens.

XX WO2003045230-A2.

XX 05-JUN-2003.

XX 02-DEC-2002; 2002WO-US038582.

30-NOV-2001; 2001US-00997722.
 (SAGR-) SAGRES DISCOVERY.
 Morris DW, Engelhard EK;
 WPI, 2003-513603/48.

New recombinant nucleic acid comprising a nucleotide sequence of any of the carcinoma-associated (CA) genes, useful for screening for drug candidates for diagnosing or treating carcinomas.

Claim 1; SEQ ID NO 16; 983pp; English.

The invention relates to a recombinant nucleic acid comprising a nucleotide sequence selected from any of the fully defined carcinoma-associated (CA) genes from the 50 tables given in the specification. The CA proteins are secreted, transmembrane or intracellular proteins. The recombinant nucleic acids are useful for screening for drug candidates for diagnosing or treating carcinomas. Sequences given in A0685215- A0685514 represent CA genes of the invention.

Sequence 96593 BP; 25039 A; 20903 C; 22979 G; 27672 T; 0 U; 0 Other;
 Query Match 39.6%; Score 158.4; DB 10; Length 96593;
 Best Local Similarity 75.0%; Pred. No. 1.8e-33;
 Matches 216; Conservative 1; Mismatches 57; Indels 14; Gaps 1;

81 ATGCTGTATTCAGCACTTCGGAGGCGCAAGTGGCGGATTCAGGTCAAGAGA 140
 18217 ACGCTGTATTCAGCACTTCGGAGGCGCAAGTGGCGGATTCAGGTCAAGAGA 18276
 141 TCGAGACCATCTGGCCCAACATGGTGAACCCCGCTTTTACTTAAATACAAAAATATG 200
 18277 TCAAGATAGCCTGGCCCAACATGGTGAACCCCGCTTTTACTTAAATACAAAAATATG 18336
 201 TGGGATGTGGGCAACACCTGTAGTCCAGCTACTCGAGAGCGGAGATTCAGGTAGC 260
 18337 TGGGATGTGGGCAACACCTGTAGTCCAGCTACTCGAGAGCGGAGATTCAGGTAGC 18396
 261 TGAAGTCGAG-----AGTACCGGAATTCACAGATCAGAGTACAGAGCAGA 306
 18397 CTTGAACCCAGGCGGCGAGGTTCAGAGTACCGGAGATTCAGAGCTTGGGTGACAGC 18456
 307 GTGAGACCCGCTCTCAAAAACAACAACAACAAAAAACCAATAG 354
 18457 GTGAGACTTCATCTCAAAAAACAAAAACAACCAACAGATG 18504

RESULT 9
 ADM74345
 ID ADM74345 standard; DNA; 96593 BP.
 AC ADM74345;
 XX 01-JUL-2004 (first entry)
 XX Human carcinoma associated (CA) nucleic acid #7.
 XX Human carcinoma associated (CA) nucleic acid; gene; de;
 XX Human carcinoma associated protein; CAP; carcinoma; leukemia; lymphoma;
 XX cytosolic.
 XX Homo sapiens.
 XX US2004072154-A1.
 XX 15-APR-2004.
 XX 30-NOV-2001; 2001US-00997722.
 XX 22-DEC-2000; 2000US-00747377.
 XX 02-MAR-2001; 2001US-00798586.

XX (MORR/) MORRIS D W.
 PA (ENGSE/) ENGELHARD E K.
 PA Morris DW, Engelhard EK;
 PI WPI, 2004-328562/30.
 DR New carcinoma associated gene or protein, useful for preparing a
 PT composition for diagnosing or treating carcinoma e.g., leukemia or
 PT lymphoma.
 XX Claim 1; SEQ ID NO 16; 29pp; English.

The invention relates to new recombinant nucleic acid. The invention also relates to a host cell comprising a recombinant nucleic acid or expression vector, an expression vector comprising a recombinant nucleic acid, a recombinant protein, a method of screening for drug candidates, a method of screening for a bioactive agent capable of binding to a carcinoma associated protein (CAP) encoded by a nucleotide sequence, a method of screening for a bioactive agent capable of modulating the activity of a CAP, a method of evaluating the effect of a candidate carcinoma drug, a method of diagnosing carcinoma, a method for inhibiting the activity of a CAP, a method of treating carcinomas, a method of neutralising the effect of a CAP and a method of diagnosing carcinoma or propensity to carcinoma. A method of evaluating the effect of a candidate carcinoma drug comprises administering the drug to a patient, removing a cell sample from the patient and determining alterations in the expression or activation of a gene comprising the nucleotide sequence. A method of diagnosing carcinoma comprises determining the expression of one or more genes comprising the nucleic acid sequence in a first tissue type of a first individual and comparing the expression of the gene from a second normal tissue type from the first individual or a second unaffected individual, where a difference in the expression indicates that the first individual has carcinoma. A method of inhibiting the activity of a CAP comprises binding an inhibitor to the CAP. Treating carcinomas comprises administering to a patient an inhibitor of CAP. Neutralising the effect of a CAP comprises contacting an agent specific for the CAP. The polypeptide specifically binds to the protein encoded by the nucleic acid. It comprises an antibody that specifically binds to the protein encoded by the nucleic acid. The nucleic acids are useful for preparing a composition for diagnosing or treating carcinoma e.g., leukemia or lymphoma. This sequence represents a human carcinoma associated (CA) nucleic acid of the invention. Note: The sequence data for this patent did not form part of the printed specification but was obtained in electronic format directly from USPTO at seqdata.uspto.gov/sequence.html.

Sequence 96593 BP; 25039 A; 20903 C; 22979 G; 27672 T; 0 U; 0 Other;
 Query Match 39.6%; Score 158.4; DB 12; Length 96593;
 Best Local Similarity 75.0%; Pred. No. 1.8e-33;
 Matches 216; Conservative 1; Mismatches 57; Indels 14; Gaps 1;

81 ATGCTGTATTCAGCACTTCGGAGGCGCAAGTGGCGGATTCAGGTCAAGAGA 140
 18217 ACGCTGTATTCAGCACTTCGGAGGCGCAAGTGGCGGATTCAGGTCAAGAGA 18276
 141 TCGAGACCATCTGGCCCAACATGGTGAACCCCGCTTTTACTTAAATACAAAAATATG 200
 18277 TCAAGATAGCCTGGCCCAACATGGTGAACCCCGCTTTTACTTAAATACAAAAATATG 18336
 201 TGGGATGTGGGCAACACCTGTAGTCCAGCTACTCGAGAGCGGAGATTCAGGTAGC 260
 18337 TGGGATGTGGGCAACACCTGTAGTCCAGCTACTCGAGAGCGGAGATTCAGGTAGC 18396
 261 TGAAGTCGAG-----AGTACCGGAATTCACAGATCAGAGTACAGAGCAGA 306
 18397 CTTGAACCCAGGCGGCGAGGTTCAGAGTACCGGAGATTCAGAGCTTGGGTGACAGC 18456
 307 GTGAGACCCGCTCTCAAAAACAACAACAACAAAAAACCAATAG 354
 18457 GTGAGACTTCATCTCAAAAAACAAAAACAACCAACAGATG 18504

ID	ACN4354/C	standard; DNA; 31898 BP.
XX	ACN4354;	
XX	18-NOV-2004	(first entry)
XX	Human genomic sequence	hcg17346.
XX	Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.	
XX	Homo sapiens.	
XX	WO2003073826-A2.	
XX	12-SEP-2003.	
XX	28-FEB-2003; 2003WO-US006235.	
XX	01-MAR-2002; 2002US-00087192.	
XX	(SAGR-) SAGRES DISCOVERY.	
XX	Morris DW;	
XX	WPI; 2003-328604/31.	
XX	Recombinant nucleic acid useful for diagnosis and treatment of carcinoma	
XX	comprises a nucleotide sequence.	
XX	Claim 1; SEQ ID NO 760; Opp; English.	
XX	The present invention relates to novel DNA and protein sequences which	
XX	are associated with carcinomas. The sequences are useful for: (i) for	
XX	screening drug candidates; (ii) for screening of bioactive agent capable	
XX	of binding to Carcinoma Associated Protein (CAP); (iii) for screening of	
XX	a bioactive agent capable of modulating the activity of CAP; (iv) for	
XX	evaluating the effect of a candidate carcinoma drug; (v) for diagnosing	
XX	carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating	
XX	carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;	
XX	(x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for	
XX	determining Carcinoma Associated (CA) gene copy number. In addition, the	
XX	CA genes are useful as DNA vaccines and the CAP are useful as markers of	
XX	carcinoma including lymphoma. The present sequence is one such CA coding	
XX	sequence. Note: This patent is an equivalent to basic patent	
XX	US2002182586A1, for which no sequence data was published	
XX	Sequence 31898 BP; 7315 A; 9118 C; 8770 G; 6695 T; 0 U; 0 Other;	
XX	Query Match 38.9%; Score 155.4; DB 11; Length 31898;	
XX	Best Local Similarity 72.6%; Pred. No. 8.8e-33;	
XX	Matches 217; Conservative 1; Mismatches 72; Indels 9; Gaps 1;	
XX	81 ATGCGCTGTAATCCCAAGCACTTTGGGAGGCCAAGTGGGCGATCACCCTAGAGTCAGAGAGA 140	
XX	30243 ACGGCTTAATATCCAGACATTTTGAAGGCCAAGGTGGCGGATCTTAGCGCAGAAAT 30184	
XX	141 TCGAGACCATCTGGCCCAATGGTGAAGCCCGCTTTTACTTAAATACAAAATATAGC 200	
XX	30183 TCGAGACCAAGCTGGCCAAATGGTGAAGCCCGCTCTCTAATAAATACAAAATTTAGC 30124	
XX	201 TGGGCATGTGTGGACACACACCTGTGTATGTCCTCCAGCTTACTAGAGCCGGAGATTGCAGTGAC 260	
XX	30123 CCGGAGTGTGTGTGGGCGCCGTGTGTATGTCCTCCAACTACTCGGAGGCGGAGGTTTGAAGTGAAC 30064	
XX	261 TGAGATGGCAGAGTGAAGTGAAGCCAAATCAAGATTCACAGGTGAGGAGTGAAGACKCGGTCT 320	
XX	30063 CGAGATCAAGCGCTTTGCACTTCCACGCTTGGGCGA-----CAGACGAGACTCTGTCT 30013	
XX	321 CAAAACAAACAAACAAACAAACAAACAAACAAATTAAGACATTTGTCATCTGGCGTTCCCGA 379	

Db	30012	CAACAAATPAACAAAAAGAAACAAGTCGACGCTTCTGCTTTGAGTTGGGTACAGA	29954
RESULT 11			
ID	ACN37240	standard; DNA, 34796 BP.	
XX	ACN37240;		
AC	18-NOV-2004	(first entry)	
DT			
XX	Human periodontal disease related gene PLOD SEQ ID NO:150.		
DE	periodontal disease; polymorphism; ds; human; gene; SNP;		
KW	single nucleotide polymorphism.		
XX			
OS	Homo sapiens.		
XX			
Key	Location/Qualifiers		
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FT	/*tag= a	/standard_name= "Single nucleotide polymorphism"	
FT	/note= "Variable nucleotide T,C"	1048	
FT	misc_feature	1048	
FT	/*tag= b	/standard_name= "Single nucleotide polymorphism"	
FT	/note= "Variable nucleotide T,C"	1103	
FT	misc_feature	1103	
FT	/*tag= c	/standard_name= "Single nucleotide polymorphism"	
FT	/note= "Variable nucleotide G,A"	5092	
FT	misc_feature	5092	
FT	/*tag= d	/standard_name= "Single nucleotide polymorphism"	
FT	/note= "Variable nucleotide A,G"	5333	
FT	misc_feature	5333	
FT	/*tag= e	/standard_name= "Single nucleotide polymorphism"	
FT	/note= "Variable nucleotide C,G"	5795	
FT	misc_feature	5795	
FT	/*tag= f	/standard_name= "Single nucleotide polymorphism"	
FT	/note= "Variable nucleotide T,C"	6328	
FT	misc_feature	6328	
FT	/*tag= g	/standard_name= "Single nucleotide polymorphism"	
FT	/note= "Variable nucleotide A,G"	6455	
FT	misc_feature	6455	
FT	/*tag= h	/standard_name= "Single nucleotide polymorphism"	
FT	/note= "Variable nucleotide A,G"	6489	
FT	misc_feature	6489	
FT	/*tag= i	/standard_name= "Single nucleotide polymorphism"	
FT	/note= "Variable nucleotide C,G"	6616	
FT	misc_feature	6616	
FT	/*tag= j	/standard_name= "Single nucleotide polymorphism"	
FT	/note= "Variable nucleotide A,G"	8061	
FT	misc_feature	8061	
FT	/*tag= k	/standard_name= "Single nucleotide polymorphism"	
FT	/note= "Variable nucleotide G,T"	10001	
FT	misc_feature	10001	
FT	/*tag= l	/standard_name= "Single nucleotide polymorphism"	
FT	/note= "Variable nucleotide A,G"	12618	
FT	misc_feature	12618	
FT	/*tag= m	/standard_name= "Single nucleotide polymorphism"	
FT	/note= "Variable nucleotide A,G"	12746	
FT	misc_feature	12746	

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F1	/note= "Variable nucleotide A,G"	
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F1	/+tag= o	
F1	/standard_name= "Single nucleotide polymorphism"	
F1	/note= "Variable nucleotide C,T"	
F1	15970	
F1	/+tag= p	
F1	/standard_name= "Single nucleotide polymorphism"	
F1	/note= "Variable nucleotide C,G"	
F1	15961	
F1	/+tag= q	
F1	/standard_name= "Single nucleotide polymorphism"	
F1	/note= "Variable nucleotide C,T"	
F1	17746	
F1	/+tag= r	
F1	/standard_name= "Single nucleotide polymorphism"	
F1	/note= "Variable nucleotide A,G"	
F1	17751	
F1	/+tag= s	
F1	/standard_name= "Single nucleotide polymorphism"	
F1	/note= "Variable nucleotide C,G"	
F1	18004	
F1	/+tag= t	
F1	/standard_name= "Single nucleotide polymorphism"	
F1	/note= "Variable nucleotide A,G"	
F1	22945	
F1	/+tag= u	
F1	/standard_name= "Single nucleotide polymorphism"	
F1	/note= "Variable nucleotide C,T"	
F1	24796	
F1	/+tag= v	
F1	/standard_name= "Single nucleotide polymorphism"	
F1	/note= "Variable nucleotide C,T"	
F1	29622	
F1	/+tag= w	
F1	/standard_name= "Single nucleotide polymorphism"	
F1	/note= "Variable nucleotide G,A"	
F1	29877	
F1	/+tag= x	
F1	/standard_name= "Single nucleotide polymorphism"	
F1	/note= "Variable nucleotide deletion, C,T"	
F1	30580	
F1	/+tag= y	
F1	/standard_name= "Single nucleotide polymorphism"	
F1	/note= "Variable nucleotide G,T"	
F1	31500	
F1	/+tag= z	
F1	/standard_name= "Single nucleotide polymorphism"	
F1	/note= "Variable nucleotide G,A"	
F1	32397	
F1	/+tag= aa	
F1	/standard_name= "Single nucleotide polymorphism"	
F1	/note= "Variable nucleotide C,T"	
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F1	/+tag= ab	
F1	/standard_name= "Single nucleotide polymorphism"	
F1	/note= "Variable nucleotide C,G"	
F1	32528	
F1	/+tag= ac	
F1	/standard_name= "Single nucleotide polymorphism"	
F1	/note= "Variable nucleotide C,G"	
F1	33004	
F1	/+tag= ad	
F1	/standard_name= "Single nucleotide polymorphism"	
F1	/note= "Variable nucleotide C,G"	
F1	33056	
F1	/+tag= ae	
F1	/standard_name= "Single nucleotide polymorphism"	
F1	/note= "Variable nucleotide C,T"	
F1	33071	
F1	/+tag= af	

FT	/standard_name="Single nucleotide polymorphism"
FT	/note="Variable nucleotide G,T"
FT	33127
FT	/tag= ag
FT	/standard_name="Single nucleotide polymorphism"
FT	/note="Variable nucleotide A,C"
PN	WO2004042054-A1.
XX	
PD	21-MAY-2004.
XX	
PF	22-OCT-2003; 2003WO-IB0046659.
XX	
PR	23-OCT-2002; 2002JP-00308634.
XX	
PA	(HUBI-) HUBIT GENOMIX INC.
XX	(KAMO/) KAMO I K.
PI	Kamoi K, Suzuki A, Numabe Y, Ji G, Muramatsu M, Baba M,
XX	
DR	WPI, 2004-400678/37.
XX	
PT	Single nucleotide polymorphisms associated with periodontal disease for
XX	examination and assessment of susceptibility to periodontal disease.
PS	Claim 9; SEQ ID NO 150; opp; Japanese.
XX	
CC	The invention relates to a novel method for examination of periodontal
XX	disease in which genetic polymorphisms are detected in one or more of 51
CC	genes. The method is useful for examination, diagnosis and assessment of
CC	periodontal disease or risk of periodontal disease and the risk of its
CC	progression to severe, aggressive and chronic periodontal disease. The
CC	present sequence represents a polymorphic gene of the invention
XX	
SQ	Sequence 34796 BP; 7631 A; 9152 C; 9368 G; 8645 T; 0 U; 0 Other;
Query Match	38.6%; Score 154.4; DB 13; Length 34796;
Best Local Similarity	72.5%; Pred. No. 1.7e-32;
Matches 200; Conservative	0; Mismatches 76; Indels 0; Gaps 0;
QY	81 ATGCTCTGTAATCCGACGACTTCGGGAGGCGCAAGGTGGCGGATCAGTCAAGGA 140
DB	4654 ATGCTCTGTAATCCGACGACTTCGGGAGGCGCAAGCGGTGATCATTTGGCGTCAGGAGT 4713
QY	141 TCGAGACCATCTGGCCACATGCGGAAACCCCGCTTACTTAAATAATACAAAAATTAGC 200
DB	4714 TTGAGACCAAGCTTGCCCAATGATGAATACCCCGCTCTATTAAAAATACAAAAATTAGC 4773
QY	201 TGGGCACTGTGGGACACACCTGTGATCCGACTACTCAGAGCCGAGATTGCAGTGAGC 260
DB	4774 TGGGCACTGTGGGAGAGTGGCTGTGATCCGACTACTCAGAGGCGGAGTTGCAGTGAGT 4833
QY	261 TGAATGCGAGAGTGAAGCCGAATTCACAGATCACAAGTGAAGAGTGAAGACCCGCTCT 320
DB	4834 TGAATATTGTGCACCTGCACCTCCAGCTTCGCGAGACAGAGTGAAGTGTCTCAAAAAAAA 4893
QY	321 CAAAAACAACAACAAAAACAAAAAACCTTAAGAC 356
DB	4894 AAAAAACAAAAACAACAAAAACAAAAAACAC 4929
RESULT 12	
ABT10719/c	
ID	ABT10719 standard; cDNA; 122748 BP.
XX	
AC	ABT10719;
XX	
XX	04-DEC-2002 (first entry)
XX	
DT	Human breast cancer associated coding sequence SEQ ID NO: 853.
XX	
XX	Human, breast specific gene; breast cancer; differential expression;
XX	cytostatic; gene therapy; gene; ss
XX	

XX OS Homo sapiens.
XX PN W0200259271-A2.
XX PD 01-AUG-2002.
XX PF 25-JAN-2002; 2002WO-US002176.
XX PR 25-JAN-2001; 2001US-0263757P.
XX PR 25-APR-2001; 2001US-0286090P.
XX PR 23-MAY-2001; 2001US-0292517P.
XX PA (GENE-) GENE LOGIC INC.
XX PI Orr MS, Nation M, Diggins JC, Zeng W;
XX PF WPI; 2002-674803/72.
XX PT Diagnosing breast cancer in a patient comprises detecting the level of
XX PT gene expression in cell or tissue samples, where a differential gene
XX PT expression is indicative of breast cancer.
XX PS Claim 1; SEQ ID NO 853; 260bp + Sequence listing; English.
XX CC The present invention relates to methods of diagnosing breast cancer in a
XX CC patient, which comprise detecting the level of expression in a tissue
XX CC sample of two or more genes selected from those shown in ABR09867-
XX CC ABR1112, where a differential expression of the genes indicates breast
XX CC cancer. The methods are useful in diagnosing, treating, detecting the
XX CC progression, and in monitoring treatment of breast cancer in patients.
XX CC The methods are also useful as a screening tool for agents that modulate
XX CC the onset or progression of breast cancer. The breast cancer genes may be
XX CC used as diagnostic markers for the prediction or identification of the
XX CC malignant state of breast tissue, for confirming the type and progression
XX CC of cancer, and for drug screening and assays. The present sequence is a
XX CC coding sequence of the invention. Note: The sequence data for this patent
XX CC did not form part of the printed specification, but was obtained in
XX CC electronic format directly from WIPO at
XX CC ftp.wipo.int/pub.published_pct_sequences
SQ Sequence 122748 BP; 32088 A; 31056 C; 30547 G; 29057 T; 0 U; 0 Other;
Query Match 38.6%; Score 154.2; DB 6; Length 122748;
Best Local Similarity 75.1%; Pred. No. 2.9e-32;
Matches 208; Conservative 1; Mismatches 59; Indels 9; Gaps 1;
QY 81 ATGCTGTAATCCCAAGCACTTCGGAGGCGCAAGTGGGCGGATCACTGAGGTCAAGAGA 140
DB 114310 ATGCTGTAATCCCAAGCACTTCGGAGGCGCGAGGCGGATCACTTCAGGTCAAGAGT 114251
QY 141 TCGAGACCATCTCGGCCAACAATGTGAAACCCCGTCTTACTTAAATAACAAAAATAGC 200
DB 114250 TTGAGACCAACTGACCAACAATGTGAAACCCCACTCTACTTAAATAACAAAAATTTGCG 114191
QY 201 TGGGATGATGGGCAACAACCTGTAGTCCCACTTACTCAGAGCCGGAATTCAGATGAGC 260
DB 114190 TGGGATGATGGGCAACAATGTGAGTCCCACTTACTCAGAGCCGGAATTCAGATGAGT 114131
QY 261 TGAAGTTCGAGAGTGAAGCGGAATATCAAGATGACAGAGTGAAGTGAAGCCKCGCT 320
DB 114130 TGAAGTTCGAGAGTGAAGCGGAATATCAAGATGACAGAGTGAAGTGAAGCCKCGCT 114080
QY 321 CAAAAACAACAACAAAAACAAAAAACCATTAAGACA 357
DB 114079 CAAAAACAACAACAAAAACAAAAAACCATTAAGACA 114043
RESULT 13
AAC79009
ID AAC79009 standard; DNA; 884 BP.
XX AAC79009;
AC

XX DT 14-FEB-2001 (first entry)
XX DE Human secreted protein gene 13 clone HSREC72.
XX KW Cytostatic; immunosuppressive; neutropic; neuroprotective; antiviral;
XX KW antiallergic; hepatotropic; antidiabetic; antineoplastic; antitumor;
XX KW vulnery; anticonvulsant; antibacterial; antifungal; antiparasitic;
XX KW cardiatic; gene therapy; cancer; immune disorder; cardiovascular disorder;
XX KW neurological disease; infection; human; secreted protein; ss.
XX OS Homo sapiens.
XX PN W0200058358-A1.
XX PD 05-OCT-2000.
XX PF 23-MAR-2000; 2000WO-US007725.
XX PR 26-MAR-1999; 99US-0126602P.
XX PR 14-JAN-2000; 2000US-0176063P.
XX PA (HUMA-) HUMAN GENOME SCI INC.
XX PI Rosen CA, Ruben SM, Komatsoulis G;
XX PF WPI; 2000-594640/56.
XX DR P-PSDB; AAB44347.
XX PS Fourty nine nucleic acid molecules encoding human secreted proteins,
XX PT useful in the prevention, treatment and diagnosis of cancer, immune
XX PT disorders, cardiovascular disorders and neurological diseases.
XX CC Claim 1; Page 322; 367bp; English.
XX CC The invention relates to the isolation of genes AAC78997-C79045 encoding
XX CC 49 human secreted proteins AAB44335-B44382. The genes can be used to
XX CC generate fusion proteins by linking to the gene for the human
XX CC immunoglobulin G Fc portion (AAC78988) for increasing the stability of
XX CC the fusion protein as compared to the human protein only. The genes and
XX CC proteins are useful for preventing, ameliorating or treating medical
XX CC conditions, e.g. by protein or gene therapy. The genes are isolated from
XX CC a range of human tissues disclosed in the specification. The nucleic
XX CC acids, proteins, antibodies and (ant)agonists are useful in the
XX CC diagnosis, treatment and prevention of: (a) cancer, e.g. breast and
XX CC ovarian cancer, and other cancers of the adrenal gland, bone, bone
XX CC marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b)
XX CC immune disorders e.g. Addison's disease, allergies, autoimmune haemolytic
XX CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,
XX CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)
XX CC cardiovascular disorders such as myocardial ischaemias; (d) wound healing
XX CC / (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)
XX CC infectious diseases such as viral, bacterial, fungal and parasitic
SQ Sequence 884 BP; 211 A; 214 C; 226 G; 233 T; 0 U; 0 Other;
Query Match 38.4%; Score 153.6; DB 3; Length 884;
Best Local Similarity 73.7%; Pred. No. 9.2e-33;
Matches 224; Conservative 1; Mismatches 70; Indels 9; Gaps 2;
QY 37 AATATTAAATAGCATTTGTCAGGCGGAGGCACTGCGGATGCTGTAATCCAG 96
DB 585 ATATTATTGTTAAATGAATATACAGGCTGGGCAAGTGCTCAGCGCTGTAATCTAG 644
QY 97 CACTTCGGAGGCGCAAGGTGGGCGGATCACTGAGGTCAAGAGATGAGACCATTCGAC 156
DB 645 CACTTCGGAGGCGCAAGGTGGGCGGATCACTGAGGTGGGAGTTCGAGACCATTCGAC 704
QY 157 CAACATGATGAACCCCGCTTTTACTTAAATAATACAAAAATAGCTGGGCGATGAGTGCAC 216
DB 705 CAATATGATGAACCCCGCTCTTA-AAAAATATACAAAAATAGCTGGGCGGATGAGTGCAGG 763

0Y	217	CACCTGTATGATCCAGCTACTCAAGAGACCCGGAATTGCAGAGCTGAGATCCGAGAGTGA	276
DB	764	CACCTGTATGATCCAGCTACTCAAGAGACCGAGGTTGAGTGAAGTCAAGTCCG-----	815
0Y	277	GCCGAATATCATCAGATTCACAGAGTGAAGCAGAGTGAAGACKCCGTCTCAAAAAACAACAACA	336
DB	816	GGCCTATGCTGATCCAGCTCCAGCCTGGGCAAAAAGATGCAAACTCTGTCTCAAAAAAAAAAAAA	875
0Y	337	AAAC 340	
DB	876	AAAC 879	
RESULT 14			
ID	AAA64141	standard; DNA; 14784 BP.	
XX	AAA64141		
AC	AAA64141		
XX			
DT	20-DEC-2000	(first entry)	
XX			
DB		Nucleotide sequence of a beta-tubulin antigen.	
XX		Beta-tubulin antigen; inner ear protein; Meniere's disease; autoantibody;	
KV		Chronic ear disease; autoimmune disease; ss.	
XX			
OS		Homo sapiens.	
XX		WO200050593-A1.	
EN		31-AUG-2000.	
XX			
PF	25-FEB-2000;	2000WO-US004795.	
XX			
PR	25-FEB-1999;	99US-0121549P.	
XX			
PA	(UYTE-) UNIV. TENNESSEE RES CORP.		
XX			
PI	Yoo TJ;		
XX			
DR	WPI; 2000-558400/51.		
XX			
PT		New beta-tubulin antigen in the membranous structure of the inner ear,	
PT		reacting with antibodies of patients with Meniere's disease, for	
PT		diagnosing Meniere's disease and distinguishing this disease from other	
PT		autoimmune ear diseases.	
XX			
XX		Claim 3; Page 97-103; 115pp; English.	
XX			
XX		The present sequence encodes a beta-tubulin antigen. The protein is an	
CC		antigen of the membranous structure of the inner ear protein, and is	
CC		reactive with antibodies from patients having Meniere's disease.	
CC		Meniere's disease is a chronic ear disease with unknown etiology. Serum	
CC		from patients suffering from this disease contain autoantibodies against	
CC		a 30 kDa cochlear protein antigen. The disease is believed to be an	
CC		autoimmune disease. The beta-tubulin antigen is useful as a target	
CC		substance in diagnosing or detecting Meniere's disease and in	
CC		distinguishing this disease from other autoimmune ear diseases	
XX			
SC		Sequence 14784 BP; 5454 A; 2966 C; 2926 G; 3438 T; 0 U; 0 Other;	
0Y		Query Match 38.3%; Score 153.2; DB 3; Length 14784;	
DB		Best Local Similarity 65.1%; Pred. No. 2.9e-32;	
DB		Matches 241; Conservative 0; Mismatches 128; Indels 1; Gaps 1	
0Y	31	GAACCAATATTAATTAATTAAGACATTGTCAAGGCCAGCATGACATCGGCTGAATGCTGTAA	90
DB	3372	GATCAAAATTAATTAATTAATTAAGGTAGCAAGGCGTGGCGGGCTCAACGCTGTAA	3433
0Y	91	TCCGAGCACTTCGGGAGGCGCAAGTGGGGGATCACTCAGAGTCAAGATCGAAGACAT	150
DB	3432	TCCGAGCACTTCGGGAGGCGCAAGTGGGGGATCACTCAGAGTCAAGATCGAAGACAT	3493

QY	151	CTGTGGCCAAACAATGGTGTAAACCCCGCTTTTACTATAAAATACAAAAATATGCTGGCAGTGT	210
Db	3492	CTGTGGCCAAACATGGCGAAACCCCGCTTCTACTATAAAATACAAAAATTATGACGAGCATGT	3551
QY	211	GGCACAACACTGTATGTCCAGACTACTGAGAGCCGAGATTGCACTGAGTCACTGCA	270
Db	3552	GGCGCACACCTGTATGTCCAGCTACTCGAGAGGCTTATGGCAGAGAAACCACTTGAAACCG	3611
QY	271	GAGTGAGCCGGAATACACGATCACAGATGAGCAGAGTGAACACCCGCTTCAAAAAACAC	330
Db	3612	GGAGGTGATGGTTGCATGTAAGCCGAGATTCGTG-CATTGGACGCGCAGCTGGACAACACAG	3670
QY	331	AACAAAAAACAAAAAAACCATTAAGACATTCATCTGCGGTTCCAGACTATTGACGA	390
Db	3671	AGCAAAAAAAATTTATGTGTGCGCAGTACAAAAACTTCATTATTAATGACATTGCAATTT	3730
QY	391	GACCAAAAAG 400	
Db	3731	TTTCATCCAG 3740	

RESULT 15
 ABE03362
 ID ABE03362 standard; DNA; 166942 BP.
 XX
 XX ABE03362;
 XX
 DT 09-FEB-2006 (first entry)
 DE
 DE Acute myelogenous leukemia prognosis related DNA sequence SEQ ID NO: 23.
 XX
 XX de; gene; acute myelogenous leukemia; prognosis; gene expression;
 KM bioclip.
 XX
 XX Homo sapiens.
 OS
 PN JP200533987-A.
 XX
 XX 08-DEC-2005.
 PD
 XX 06-MAY-2005; 2005JP-00135284.
 PF
 XX 06-MAY-2004; 2004US-0568635P.
 PR
 XX (VERI-) VERIDEX LLC.
 PA
 XX Laponi M;
 PI
 DR WPI; 2006-004067/01.
 XX
 PT Evaluating an acute myelogenous leukemia patient's prognosis, comprising
 PT detecting lower or higher expression level of gene recognized by probe
 PT set e.g. 202820-at and 206148-at, with respect to predetermined cut-off
 PT level.
 PS
 PS Example 5; SEQ ID NO 23; 60bp; Japanese.
 CC
 CC The present sequence is that of a human gene sequence which is claimed
 CC for use in evaluating the prognosis of patents suffering from acute
 CC myelogenous leukemia (AML) by analysis of the patients gene expression
 CC profile. The invention relates to a novel method for evaluating the
 CC prognosis of a patient with acute myelogenous leukemia by detecting
 CC higher/lower expression level of genes encoding mRNA recognized by a
 CC probe set chosen from 19 nucleotide sequences (ABE03340 or ABE03344-
 CC ABE03361). Also, gene expression profiling of AML patients using a set
 CC of probes based on 167 sequences (ABE03362-ABE03527) using a bioclip was
 CC performed to determine prognosis. Methods are also included for
 CC determining an AML patient's state, determining AML patient's treatment
 CC protocol, determining whether the patient will respond to the treatment,
 CC and producing an AML patient's prognosis report by analysis of the
 CC patients gene expression profile. The methods are useful in evaluating an
 CC AML patient's prognosis and for treating AML patient.
 CC

[illegible]

PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 11-DEC-2000; 2000US-0251990P.
PR 05-JAN-2001; 2001US-0259678P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Barash SC, Ruben SM;
XX WPI; 2001-465570/50.
XX
XX Isolated nucleic acid molecule encoding a reproductive system antigen is
XX used in preventing, treating or ameliorating a medical condition.
XX
XX Disclosure; SEQ ID NO 7647; 1297pp + Sequence Listing; English.
XX
XX The present invention provides the protein and coding sequences of a
XX number of human reproductive system related antigens. These can be used
XX in the prevention and treatment of reproductive system disorders,
XX including cancer. The present sequence is a genomic sequence encoding a
XX protein of the invention
XX
SQ Sequence 4388 BP; 870 A; 1238 C; 1205 G; 1075 T; 0 U; 0 Other;
Query Match 38.1%; Score 152.4; DB 4; Length 4388;
Best Local Similarity 76.5%; Pred. No. 3.3e-32;
Matches 202; Conservative 1; Mismatches 52; Indels 9; Gaps 1;
QY 81 ATGCTGTATCCGACGACTTCGGAGGCCAAGGTGGCGGATCACTGAGGTCAAGGA 140
DB 1275 AAGCTGTATTCGACGACTTCGGAGGCCGAGCGCGGATCACTGAGGTCAAGGA 1216
QY 141 TCGAGACATCTGGCGCAATGTGAAACCCCGCTTATTAATAAACAATAATAGC 200
DB 1215 TCGAGACATCTGGCGCAATGTGAAACCCCGCTTATTAATAAACAATAATAGC 1156
QY 201 TGGGCGATGGTGGCAACACCTGTAGTCCAGCTACTCAGAGCGGAGATTGCATGAGC 260
DB 1155 CGCAGCTGTGGCGGCGGCGCTGTATCCCACTACTGGGAGGAGGTTGCAGCAGC 1096

QY 261 TGAATCGCAGAGTGAAGCCGAATATCAATCAAGAGTGAACGACGACCCGCTT 320
DB 1095 AGAGATCGTCCGCTATTCAGCTCCAGTCTGGGCGA-----CACAGGAGACTCCGCTT 1045
QY 321 CAAAACACACACAAACAAACAA 344
DB 1044 CAAAAAAAAAAAAAAAAAAAAA 1021
RESULT 17
ABL97853/c
ID ABL97853 standard; DNA; 4388 BP.
XX ABL97853;
XX
XX 21-JUN-2002 (first entry)
XX
XX Human testicular antigen encoding DNA fragment SEQ ID NO: 2505.
XX
XX Human; testicular antigen; testes; cancer; metastasis; immune disorder;
XX reproductive system disorder; urinary system disorder; gene therapy;
XX cardiovascular disorder; respiratory disorder; neurological disorder;
XX gastrointestinal disease; infection; cytostatic; gene; ds.
OS Homo sapiens.
XX
XX WO200155317-A2.
XX
XX 02-AUG-2001.
XX
XX 17-JAN-2001; 2001WO-US001329.
XX
XX 31-JAN-2000; 2000US-0179065P.
XX 04-FEB-2000; 2000US-0180628P.
XX 24-FEB-2000; 2000US-0184664P.
XX 02-MAR-2000; 2000US-0186350P.
XX 16-MAR-2000; 2000US-0189874P.
XX 17-MAR-2000; 2000US-0190076P.
XX 18-APR-2000; 2000US-0198123P.
XX 19-MAY-2000; 2000US-0205515P.
XX 07-JUN-2000; 2000US-0209467P.
XX 28-JUN-2000; 2000US-0214886P.
XX 30-JUN-2000; 2000US-0215135P.
XX 07-JUL-2000; 2000US-0216647P.
XX 11-JUL-2000; 2000US-0216880P.
XX 11-JUL-2000; 2000US-0217487P.
XX 14-JUL-2000; 2000US-0218290P.
XX 26-JUL-2000; 2000US-0220963P.
XX 26-JUL-2000; 2000US-0220964P.
XX 14-AUG-2000; 2000US-0224518P.
XX 14-AUG-2000; 2000US-0224519P.
XX 14-AUG-2000; 2000US-0225213P.
XX 14-AUG-2000; 2000US-0225214P.
XX 14-AUG-2000; 2000US-0225267P.
XX 14-AUG-2000; 2000US-0225267P.
XX 14-AUG-2000; 2000US-0225268P.
XX 14-AUG-2000; 2000US-0225270P.
XX 14-AUG-2000; 2000US-0225447P.
XX 14-AUG-2000; 2000US-0225757P.
XX 14-AUG-2000; 2000US-0225758P.
XX 14-AUG-2000; 2000US-0225759P.
XX 18-AUG-2000; 2000US-0226279P.
XX 22-AUG-2000; 2000US-0226681P.
XX 22-AUG-2000; 2000US-0226686P.
XX 22-AUG-2000; 2000US-0227182P.
XX 23-AUG-2000; 2000US-0227009P.
XX 30-AUG-2000; 2000US-0228924P.
XX 01-SEP-2000; 2000US-0229287P.
XX 01-SEP-2000; 2000US-0229343P.
XX 01-SEP-2000; 2000US-0229344P.
XX 01-SEP-2000; 2000US-0229345P.

XX AB68122;
 XX
 XX 15-MAY-2002 (first entry)
 XX
 XX Ovary cancer related gene sequence SEQ ID NO:6459.
 XX
 XX Human; cancer: colon; breast; ovary; oesophagus; kidney; thyroid;
 XX stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
 XX cytostatic; gene therapy; antineoplastic; Wilms tumour; adenocarcinoma;
 XX gene; ds.
 XX
 XX Homo sapiens.
 XX
 XX WO200194629-A2.
 XX
 XX 13-DEC-2001.
 XX
 XX 30-MAY-2001; 2001WO-US010838.
 XX
 XX 05-JUN-2000; 2000US-0209473P.
 XX 05-JUN-2000; 2000US-0209531P.
 XX 18-SEP-2000; 2000US-0231133P.
 XX 18-SEP-2000; 2000US-0231617P.
 XX 20-SEP-2000; 2000US-0234009P.
 XX 20-SEP-2000; 2000US-0234034P.
 XX 20-SEP-2000; 2000US-0234052P.
 XX 22-SEP-2000; 2000US-0234509P.
 XX 22-SEP-2000; 2000US-0234567P.
 XX 25-SEP-2000; 2000US-0234923P.
 XX 25-SEP-2000; 2000US-0234924P.
 XX 25-SEP-2000; 2000US-0235077P.
 XX 25-SEP-2000; 2000US-0235082P.
 XX 25-SEP-2000; 2000US-0235134P.
 XX 26-SEP-2000; 2000US-0235637P.
 XX 26-SEP-2000; 2000US-0235638P.
 XX 27-SEP-2000; 2000US-0235711P.
 XX 27-SEP-2000; 2000US-0235720P.
 XX 27-SEP-2000; 2000US-0235840P.
 XX 27-SEP-2000; 2000US-0235863P.
 XX 28-SEP-2000; 2000US-0236028P.
 XX 28-SEP-2000; 2000US-0236033P.
 XX 28-SEP-2000; 2000US-0236034P.
 XX 28-SEP-2000; 2000US-0236034P.
 XX 28-SEP-2000; 2000US-0236109P.
 XX 29-SEP-2000; 2000US-0236842P.
 XX 29-SEP-2000; 2000US-0236891P.
 XX 02-OCT-2000; 2000US-0237172P.
 XX 02-OCT-2000; 2000US-0237173P.
 XX 02-OCT-2000; 2000US-0237278P.
 XX 02-OCT-2000; 2000US-0237294P.
 XX 02-OCT-2000; 2000US-0237295P.
 XX 02-OCT-2000; 2000US-0237316P.
 XX 03-OCT-2000; 2000US-0237425P.
 XX 03-OCT-2000; 2000US-0237598P.
 XX 03-OCT-2000; 2000US-0237604P.
 XX 03-OCT-2000; 2000US-0237606P.
 XX 03-OCT-2000; 2000US-0237608P.
 XX 01-NOV-2000; 2000US-0244867P.
 XX 01-NOV-2000; 2000US-0245084P.
 XX
 XX (AVAL-) AVALON PHARM.
 XX
 XX Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;
 XX Sopet DR, Weaver Z;
 XX
 XX WPI; 2002-188264/24.
 XX
 XX Screening for anti-neoplastic agent involves exposing cells to a chemical
 XX agent to be tested for anti-neoplastic activity, and determining a change
 XX in expression of a gene of a signature gene set.

XX Claim 1; SEQ ID NO 6459; 44bp; English.
 XX
 XX The present invention describes a method (M1) for screening for an anti-
 XX neoplastic agent. The method involves exposing cells to a chemical agent
 XX to be tested for anti-neoplastic activity, determining a change in
 XX expression of at least one gene (I) of a signature gene set, where (I)
 XX comprises a sequence (S) selected from 8447 sequences (given in AB61664
 XX to AB170110), or is at least 95% identical to (S), where a change in
 XX expression is indicative of anti-neoplastic activity. (I) has cytostatic
 XX activity and can be used in gene therapy. M1 can be used for screening an
 XX anti-neoplastic agent, and can be used for producing a product which is
 XX the data collected with respect to the anti-neoplastic agent as a result
 XX of M1, and the data is sufficient to convey the chemical structure and/or
 XX properties of the agent. M1 can be used in the treatment of cancer such
 XX as colon, breast, stomach, lung, thyroid, oesophageal, ovarian, kidney,
 XX prostate or pancreatic cancer, adenocarcinoma, carcinoma, clear cell
 XX cancer, infiltrating ductal cancer, infiltrating lobular cancer, squamous
 XX cell carcinoma, neuroendocrine carcinoma, papillary carcinoma and Wilms
 XX tumour.
 XX
 XX Sequence 174424 BP; 39582 A; 48304 C; 48535 G; 38003 T; 0 U; 0 Other;
 XX
 XX Query Match 38.0%; Score 152; DB 6; Length 174424;
 XX Best Local Similarity 71.8%; Pred. No. 1.3e-31;
 XX Matches 214; Conservative 0; Mismatches 80; Indels 4; Gaps 1;
 XX
 XX 6 TACTCAGCCATGTCCTGGCCCATGGGAACCCAAATATTAATAGCATTTGTCAGCCACG 65
 XX 48438 TCCTCAGGTGTCTGTATCTTGTGTCTTCATATTAAAGATGGGCGAGCTGGG 48379
 XX
 XX 66 CATGACACTGGCTGAATGCTGTATATCCACACTTGGGAGGCCAAGGTGGCGGATCA 125
 XX 48378 CATGGCA---GCTCATGCTCTGTATCCCAACTTTGGGAGGCCAAGTGGCGGATCA 48323
 XX
 XX 126 CCTGAGGTCAAGAGATGAGAGCATCTCGGCAATGTAATACCCGCTCTTAATAA 185
 XX 48322 CTGAGGTCAAGAGATCAAGTCATCTCGGCAATGTAATACCCGCTTTGATCTTAA 48263
 XX
 XX 186 AATACAAAAAATAGCTGGGCGATGGTGCACACACTGTAGTCCAGCTACTCAGGAGCG 245
 XX 48262 AATACAAAAAATAGCTGGGCGATGGTGCACACTGTAGTCCAGCTACTTGGGAGCT 48203
 XX
 XX 246 GAGATTGCACTGACCTGATGATCGCAGAGTGACCCGAATATCAAGATCAAGATGAGC 303
 XX 48202 GAGCAGGAGAGATGCTTGAATCCGGAGGTGGAGATTGCAGTGAGCCGAGATTGTGC 48145
 XX
 XX RESULT 19
 XX ADQ19573/c
 XX ID ADQ19573 standard; DNA; 181343 BP.
 XX
 XX ADQ19573;
 XX
 XX 26-AUG-2004 (first entry)
 XX
 XX Human soft tissue sarcoma-upregulated DNA - SEQ ID 2392.
 XX
 XX soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human;
 XX ds.
 XX
 XX Homo sapiens.
 XX
 XX WO2004048938-A2.
 XX
 XX 10-JUN-2004.
 XX
 XX 26-NOV-2003; 2003WO-US038193.
 XX
 XX 26-NOV-2002; 2002US-0429739P.
 XX
 XX (PROT-) PROTEIN DESIGN LABS INC.

PI Aziz N, Ginsburg WM, Zlotnik A;
XX
XX WPI; 2004-441208/41.

PT Early detection of soft tissue sarcoma comprises determining expression
PT of a gene in a first soft tissue sample and a normal soft tissue sample
PT and comparing the gene expression, also useful in treating soft tissue
PT sarcoma.

XX
XX Example 2; SEQ ID NO 2392; 210bp; English.

XX The invention relates to a novel method for detecting soft tissue sarcoma
XX which comprises obtaining a first soft tissue sample from an individual
XX and a normal soft tissue sample from the same or different individual,
XX determining the expression of a gene in both samples and comparing the
XX expression of the gene in both soft tissue samples, where a higher level
XX of protein expression in the first soft tissue sample indicates the
XX presence of soft tissue sarcoma. The method of the invention has
XX cyrostatic applications and may be useful for detecting soft tissue
XX sarcoma, possibly via gene therapy or vaccine production. The nucleic
XX acid sequences may be useful in diagnostic and screening applications.
XX The current sequence is that of a human soft tissue sarcoma-upregulated
XX DNA of the invention. The current sequence is not shown within the
XX specification per se but was submitted in CD format by the inventor.

XX Sequence 181343 BP; 41465 A; 49982 C; 50309 G; 39587 T; 0 U; 0 Other;

XX Query Match 38.0%; Score 152; DB 12; Length 181343;

XX Best Local Similarity 71.8%; Pred. No. 1.3e-31;
XX Matches 214; Conservative 0; Mismatches 80; Indels 4; Gaps 1;

QY 6 TATCTACGACATGCTGTGGCCATGGGAAACCAATATTAATGAACATTGTCAGGCCAG 65
DB TCCCTGAGTGTCTGTGATCTTGTCTTCTTCAATTTAAGATGGGAGGCTGGG 48380

QY 66 CATGACATGCTGCTGATCTGTATCCAGACACTTCGGAGGCCAAGGTGGCGGATCA 125

DB 48379 CATGCA-----GTCATCTCCTGTATCCCAACACTTTGGAGGCCGAGTGGGATCA 48324

QY 126 CCTGAGGTCAAGATCGAGACCATCTGGCCAAATGCTGTAATCTTAACTTAA 185

DB 48323 CCTGAGGTCAAGATCGAGACCATCTGGCCAAATGCTGTAATCTTAACTTAA 48264

QY 186 AATCAAAATATAGCTGGGCACTGTGCGACACCTGTAGTCCCACTACTCAGGAGCG 245

DB 48263 AATCAAAATATAGCTGGGCACTGTGCGACACCTGTAGTCCCACTACTTGGAGGCT 48204

QY 246 GAGATTGCACTGAGCTGAGATCGCAGAGTGAGCCGAAATCAAGATCAAGAGTGAGC 303

DB 48203 GAGGAGAGAAATGCTTGAATCCGGAGGTGAGATTGCACTGAGCCGAGATTGTGC 48146

RESULT 20

AB08186/c
ID AB08186 standard; cDNA; 169739 BP.

XX AB08186;

XX 18-SEP-2002 (first entry)

DE Human osteoblast differentiation related cDNA SEQ ID NO 93.

XX Human, osteoblast; stem cell differentiation; bone tissue deposition;
XX osteoporosis; osteopathic; ss.

XX Homo sapiens.

XX WO200250301-A2.

XX 27-JUN-2002.

XX 18-DEC-2001; 2001WO-US048276.

PR 18-DEC-2000; 2000US-0255882P.
PR 24-APR-2001; 2001US-0285691P.

XX (GENE-) GENE LOGIC INC.
XX (PROC) PROCTER & GAMBLE CO.

PI Ji D, Axelrod DW, Cook JS, Jaiswal N, Einstein R, Houghton A;
PI Mertz L;

XX WPI; 2002-557663/59.

XX Use of genes and their expression profiles associated with osteoblast
XX differentiation for screening modulators bone formation, for diagnosing
XX or treating e.g. osteoporosis, or as markers for the differentiation
XX process.

XX Claim 1; SEQ ID NO 93; 78bp + Sequence Listing; English.

XX The invention relates to genes and their expression profiles are used
XX for: (a) screening modulators of precursor stem cell differentiation into
XX osteoblasts, or bone tissue deposition; (b) diagnosing abnormal
XX deposition of bone tissue, abnormal rate of osteoblast formation or
XX osteoporosis; or (c) treating or monitoring treatment of the conditions
XX cited in (b), or monitoring the progression of bone tissue deposition.
XX Specific conditions include postmenopausal osteoporosis, glucocorticoid
XX osteoporosis or male osteoporosis, osteopenia, osteodystrophy, drug-
XX induced abnormalities in bone formation or bone loss, conditions that
XX involve altered bone metabolism (e.g. idiopathic juvenile osteoporosis),
XX skeletal disease linked to breast cancer, mastocytosis, Fanconi Syndrome
XX or fibrous dysplasia. The present sequence is that of an osteoblast
XX differentiation associated cDNA marker of the invention. Note: The
XX sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences

XX Sequence 169739 BP; 49809 A; 35660 C; 35715 G; 48555 T; 0 U; 0 Other;

XX Query Match 37.9%; Score 151.4; DB 6; Length 169739;

XX Best Local Similarity 70.9%; Pred. No. 1.9e-31;
XX Matches 229; Conservative 1; Mismatches 87; Indels 6; Gaps 2;

QY 30 GAAACCAATATTAATTAAGACATGTCAGGCCAGGACATGCTGATATCTGTGA 89

DB 125892 GGTAAAGAAATCTTAAGTTAAAGATCTAAAGTTTGGCCAGGACATGAGCTTAACCTGTGA 125833

QY 90 ATCCAGACATTTGGGAGGCCAAGGTGGCGGATCACTGAGTCAAGATCGAGACCA 149

DB 125832 ATCCAGACATTTGGGAGGCCAAGGTGGCGGATCACTGAGTCAAGATCGAGACCA 125773

QY 150 TCCTGGCCAAATGATGTAATCCCGTCTTAACTTAAATCAAAAAATAGCTGGGCAATG 209

DB 125772 GCTTGGCCAAATGATGTAATCCCGTCTTAACTTAAATCAAAAAATAGCTGGGCAATG 125713

QY 210 TGGACACACCTGTAGTCCAGCTACTCTAGAGCCGAGATGTCAGTGAAGTGTGC 269

DB 125712 TGGACACACCTGTAGTCCAGCTACTCTAGAGCCGAGATGTCAGTGAAGTGTGC 125654

QY 270 AGATGAGCCGAATCA-----GATCAAGATGAGCAGAGTGAAGCCKCGTCTCAAA 324

DB 125653 TGGGTGATCAAGATCGACATGCGACTCCAGCCTTGGGCAACGAGATCTCATTCGAA 125594

QY 325 AACAAACAACAAAAACAAAAAA 347

DB 125593 AAAAATTAATTAATTAATTAATTA 125571

RESULT 21

AAK68418/c
ID AAK68418 standard; DNA; 14282 BP.

XX AAK68418;

XX 06-NOV-2001 (first entry)

XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:23230.
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
XX Cytostatic; gene therapy; vaccine; metastasis; ds.
XX Homo sapiens.
XX MO200157182-A2.
XX 09-AUG-2001.
XX 17-JAN-2001; 2001WO-US001354.
XX 31-JAN-2000; 2000US-0179065P.
XX 04-FEB-2000; 2000US-0180628P.
XX 24-FEB-2000; 2000US-0184664P.
XX 02-MAR-2000; 2000US-0186350P.
XX 16-MAR-2000; 2000US-0189874P.
XX 17-MAR-2000; 2000US-0190076P.
XX 18-APR-2000; 2000US-0198123P.
XX 19-MAY-2000; 2000US-0205515P.
XX 07-JUN-2000; 2000US-0209467P.
XX 28-JUN-2000; 2000US-0214886P.
XX 30-JUN-2000; 2000US-0215135P.
XX 07-JUL-2000; 2000US-0216647P.
XX 07-JUL-2000; 2000US-0216880P.
XX 11-JUL-2000; 2000US-0217487P.
XX 11-JUL-2000; 2000US-0217496P.
XX 14-JUL-2000; 2000US-0218290P.
XX 26-JUL-2000; 2000US-0220963P.
XX 14-AUG-2000; 2000US-0224518P.
XX 14-AUG-2000; 2000US-0224519P.
XX 14-AUG-2000; 2000US-0225213P.
XX 14-AUG-2000; 2000US-0225214P.
XX 14-AUG-2000; 2000US-0225266P.
XX 14-AUG-2000; 2000US-0225267P.
XX 14-AUG-2000; 2000US-0225268P.
XX 14-AUG-2000; 2000US-0225270P.
XX 14-AUG-2000; 2000US-0225447P.
XX 14-AUG-2000; 2000US-0225757P.
XX 14-AUG-2000; 2000US-0225758P.
XX 14-AUG-2000; 2000US-0225759P.
XX 18-AUG-2000; 2000US-0226279P.
XX 22-AUG-2000; 2000US-0226681P.
XX 22-AUG-2000; 2000US-0226868P.
XX 23-AUG-2000; 2000US-0227182P.
XX 30-AUG-2000; 2000US-0227009P.
XX 01-SEP-2000; 2000US-0228924P.
XX 01-SEP-2000; 2000US-0229287P.
XX 01-SEP-2000; 2000US-0229343P.
XX 01-SEP-2000; 2000US-0229345P.
XX 05-SEP-2000; 2000US-0229509P.
XX 05-SEP-2000; 2000US-0229513P.
XX 06-SEP-2000; 2000US-0230437P.
XX 06-SEP-2000; 2000US-0231242P.
XX 08-SEP-2000; 2000US-0231243P.
XX 08-SEP-2000; 2000US-0231244P.
XX 08-SEP-2000; 2000US-0231413P.
XX 08-SEP-2000; 2000US-0231414P.
XX 08-SEP-2000; 2000US-0232080P.
XX 12-SEP-2000; 2000US-0232081P.
XX 12-SEP-2000; 2000US-0232196P.
XX 14-SEP-2000; 2000US-0232397P.
XX 14-SEP-2000; 2000US-0232398P.
XX 14-SEP-2000; 2000US-0232399P.
XX 14-SEP-2000; 2000US-0232400P.
XX 14-SEP-2000; 2000US-0233063P.
XX 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0233066P.
PR 21-SEP-2000; 2000US-0234223P.
PR 25-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 26-SEP-2000; 2000US-0234984P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249246P.
PR 17-NOV-2000; 2000US-0249247P.
PR 17-NOV-2000; 2000US-0249255P.
PR 17-NOV-2000; 2000US-0249257P.
PR 17-NOV-2000; 2000US-0249259P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.

PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254037P.
PR 05-JAN-2001; 2001US-0259678P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
PI Rosen CA, Barash SC, Ruben SM;
DR WPI; 2001-483426/52.
XX
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
XX Disclosure; SEQ ID NO 23230; 3071bp + Sequence Listing; English.
XX
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patients own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/haematopoietic-related diseases, especially
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC to AAK87694 represent human immune/haematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC represent sequences used in the exemplification of the present invention
XX
XX Sequence 14282 BP; 3993 A; 2449 C; 2814 G; 5026 T; 0 U; 0 Other;
SQ
Query Match 37.7%; Score 150.6; DB 4; Length 14282;
Best Local Similarity 73.6%; Pred. No. 1.5e-31;
Matches 192; Conservative 0; Mismatches 65; Indels 0; Gaps 0;
QY 48 AGACATTGTCAGGCGGCGATGACACTGGCTGAATGCTGAATCCGACATTGGGAG 107
DB 4784 AATATATATATCTTCTGCGGACGACGCGGGGACATGCTGAATCCGACATTGGGAG 4725
QY 108 GCCAAGTGGGCGGATCCCTGAGGTCAAGATGAGACACATCTGGCCAAATGTGGA 167
DB 4724 ACCGAGTGGGCGGATCTTGAAGTTCAGAGTTGAGCCAGCTGGCCGACATGTGTA 4665
QY 168 AACCCCGCTTTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 227
DB 4664 AACCCCGCTTTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 4605
QY 228 CCAGCTACTCAGAGCGCGAGATTGCACTGAGCTGAGATGCGAAGTGAAGCCGAATCAC 287
DB 4604 CCAGCTACTCAGAGCGCGAGATTGCACTGAGCTGAGATGCGAAGTGAAGCCGAATCAC 4545
QY 288 AGATCAGCAGACTGACGAGACT 308
DB 4544 GGGCAACGAGTGAATCTCTGT 4524

RESULT 22
AAS28363/c
ID AAS28363 standard; DNA; 32146 BP.
XX
XX AAS28363;
AC
XX
DT 07-NOV-2001 (first entry)
XX
DE Genomic sequence #203 encoding for novel human respiratory antigen.
XX
KW Human; respiratory antigen; respiratory disorder; throat disorder;
lung disorder; nose disorder; lung cancer; gene therapy; cytostatic;
PR

KW anti allergic; anti asthmatic; anti inflammatory; olfactory;
XX respiratory active; ds.
XX Homo sapiens.
XX WO20015448-A1.
XX
XX 02-AUG-2001.
XX
XX 17-JAN-2001; 2001WO-US001333.
XX
XX 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 26-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225256P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226661P.
PR 22-AUG-2000; 2000US-0226668P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227109P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
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PR 05-JAN-2001; 2001US-0259678P.
 XX (HUMA-) HUMAN GENOME SCI INC.
 PA Rosen CA, Barash SC, Ruben SM;
 PI WPI; 2001-476224/51.
 DR
 XX
 PT Isolated polypeptide for treating, preventing and/or prognosing
 PT disorders related to the respiratory system including respiratory cancers
 PT and also for testing and detection e.g. diagnosis.
 XX
 PS Disclosure; SEQ ID NO 797; 546bp; English.
 XX
 CC The present invention relates to the isolation of novel human respiratory
 CC antigens (AAU17685-AAU17975), and cDNA and genomic sequences encoding for
 CC these polypeptides. The sequences of the invention are useful for
 CC preventing, treating and/or diagnosing disorders related to the
 CC respiratory system including throat disorders (e.g. vocal cord paralysis,
 CC tonsillitis, and laryngitis), lung disorders e.g. pneumonia, allergic
 CC disorders e.g. asthma, pleurisy, cystic fibrosis, emphysema, nose
 CC disorders and cancers of the respiratory tissues e.g. lung cancer. The
 CC polynucleotide sequences of the invention are useful in gene therapy and
 CC antisense therapy. AAU28161-AAU28764 represent genomic sequences encoding
 CC for novel human respiratory antigens. Note: The sequence data for this
 CC patent did not form part of the printed specification, but was obtained
 CC in electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 CC
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 SQ Sequence 32146 BP; 8745 A; 6747 C; 7148 G; 9506 T; 0 U; 0 Other;
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 Best Local Similarity 68.5%; Pred. No. 1.9e-31;
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 QY 141 TCGAGACCACTCTGGCCAAATGTGTAACCCCGTCTTTACTTAAATAACAAAAATAGC 200
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 QY 201 TGGGATGTGGACACACCTGTAGTCCCAAGTACTCAGAG-----CCGGAATTGC 253
 DB 2317 AGGGCATGTGGCGGACCTGTAGTCCCAAGTGTGGAGACTGAGCCAGAGAAATTG 2258
 QY 254 AGTGAGCTGATGTCGACAGTGAAGCGGAATCAAGATCAAGAGTGAAGAGAC 313
 DB 2257 CTTGAACCCGAGGCGGAGGTTGCAATGAGCCGAGATTGACTGCAATGACAGAGAC 2198
 QY 314 KCCGTCCTCAAAAACAACAAAAAACAACCAATAGCATTTGTCATCTCGGTT 373
 DB 2197 TCCGTCCTCAAAAACAAAAAAGATTAAGTGAAGCAATAGGGGGA 2138
 QY 374 CCCAGACTATTGCAGAGACCAAAAAG 400
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 XX ADG41559;
 AC
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 XX 26-FEB-2004 (first entry)
 DT
 XX
 XX Human respiratory system associated genomic DNA seq id 797.
 DE
 XX
 XX antiinflammatory; antiallergic; antiasthmatic; cyclostatic; gene therapy;
 KW respiratory system antigen;
 KW human respiratory system associated polynucleotide;

KW respiratory system disorder; throat disorder; vocal cord paralysis;
KW tonsillitis; laryngitis; lung disorder; pneumonia; allergic disorder;
KW asthma; eosinophilic pneumonia; pleurisy; cystic fibrosis; emphysema;
KW histiocytosis; sarcoidosis; nose disorder; rhinitis; sinusitis; neoplasm;
KW cancer; respiratory tissue cancer; throat cancer; lung cancer;
KW cancer of the nose; gene therapy; chromosome identification; forensic;
KW human respiratory system associated protein; ds; human.
OS Homo sapiens.
XX US2003215893-A1.
XX 20-NOV-2003.
PD 07-AUG-2002; 2002US-00212872.
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 PR 05-JAN-2001; 2001US-0259678P.
 PR 17-JAN-2001; 2001US-00764860.
 PR 14-FEB-2002; 2002US-00074095.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Rosen CA, Ruben SM, Barash SC,

XX WPI; 2003-902033/82.

XX Novel respiratory system antigen and polynucleotides encoding the
 PT polypeptides; useful for treating diagnosing, treating or preventing
 PT tonsillitis, pneumonia, asthma and cystic fibrosis, emphysema, throat
 cancer.

XX Disclousure; SEQ ID NO 797; 236pp; English.

XX The invention describes an isolated polypeptide (I) comprising an amino
 CC acid sequence that is at least 90% identical to polypeptide fragment of
 CC any one of 299 respiratory system antigen sequences (PS) and having
 CC biological activity, polypeptide domain or epitope of PS, full-length
 CC protein of PS or variant, allelic variant or species homolog of PS. (I)
 CC or a polynucleotide (II) encoding (I) is also useful for diagnosing a
 CC pathological condition or a susceptibility to a pathological condition in
 CC a subject which involves determining the presence or absence of mutation
 CC in (II) or determining the presence or amount of expression of (I) in a
 CC biological sample and diagnosing a pathological condition based on the
 CC result. The human respiratory system associated polynucleotides, the
 CC polypeptides encoded by them, and antibodies that immunospecifically bind
 CC these polypeptides are useful in diagnosis, treatment, prevention and/or
 CC prognosis of disorders of respiratory system such as throat disorders
 CC (e.g., vocal cord paralysis, tonsillitis, and laryngitis), lung disorders
 CC (e.g., pneumonia), allergic disorders, (e.g., asthma and eosinophilic
 CC pneumonia), pleurisy, cystic fibrosis, emphysema, histiocytosis,
 CC sarcoidosis, nose disorders (rhinitis and sinusitis), neoplasms and/or
 CC cancers of respiratory tissues (e.g., throat cancer, lung cancer, and
 CC cancer of the nose). The polynucleotides are useful in gene therapy
 CC techniques, for chromosome identification, identifying individuals from

CC Query Match 37.7%; Score 150.6; DB 10; Length 32146;

CC Best Local Similarity 68.5%; Pred. No. 1.9e-31;

CC Matches 224; Conservative 1; Mismatches 95; Indels 7; Gaps 1;

XX 81 ATGCTGTATATCCGACGACTTCGGAGGCGCAAGTGGGCGATCACTGAGGTCAAGGA 140
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 XX 141 TCGAGACCATCTGCGCAACATGTGAACCCGCTTTACTAAATAAATAAATAATAGC 200
 DB 2377 TTGAGACCAAGCTGCGCAACATGTGAACCCGCTTTACTAAATAAATAAATAATAGC 2318
 XX 201 TGGGATGTGGGACACACTGTAGTCCGAGTACTCAAGAG-----CCGAGATTGC 253
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 XX 254 AGTGAGTGAGATGCGAGAGTGAAGCGGAATCAAGATCAAGAGTGAAGAGAGAC 313
 DB 2257 CTTGAACCCGGAGGCGGAGGTTGCAATGAGCCGAGATTGTACTGCAATGCAAGAAC 2198
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 DB 2197 TCCGCTCAAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAG 2138
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 DB 2137 TCTCAGCAAAATATCGATTTAACAAG 2111

RESULT 24
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 AC
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 DT 04-NOV-2004 (first entry)
 XX
 DE Human respiratory system associated polypeptide-related DNA SeqID797.
 XX
 XX respiratory system-related polypeptide; antiasthmatic; antibacterial;
 KW antiinflammatory; cytoskeletal; antianaemic; antiallergic; gene therapy;
 KW pneumonia; lung cancer; cystic fibrosis; asthma; sarcoidosis; rhinitis;
 KW anaemia; leukaemia; inflammation; sinusitis;
 KW chronic obstructive pulmonary disease; infectious disease; human; ds.
 OS Homo sapiens.
 XX
 XX US2003077704-A1.
 PN
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 XX 24-APR-2003.
 PD
 XX
 XX 14-FEB-2002; 2002US-00074095.
 PF
 XX 31-JAN-2000; 2000US-0179065P.
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PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249219P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.

PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
PR 17-JAN-2001; 2001US-00764860.
PA (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Ruben SM, Barash SC;
PI WPI; 2003-765403/72.
XX
XX New human respiratory system-related polypeptide and genes, useful for
PT treating, preventing or diagnosing e.g. pneumonia, lung cancer, cystic
PT fibrosis, asthma, sarcoidosis, rhinitis, leukemia, inflammations or
PT sinusitis.
XX
XX Disclosure; SEQ ID NO 797; 202pp; English.
PS
XX
XX This invention is related to a novel isolated polypeptide, which
CC comprises a human respiratory system-related polypeptide, and the DNA
CC sequence which encodes it. The invention may be useful for the
CC development of compounds with an antiasthmatic, antibacterial,
CC antiinflammatory, cytostatic, antianaemic or antiallergic activity. In
CC addition, the sequences disclosed may be useful for gene therapy. The
CC polypeptide or polynucleotide is useful for treating, preventing or
CC ameliorating a medical condition, for example pneumonia, lung cancer,
CC cystic fibrosis, asthma, sarcoidosis, rhinitis, anaemia, leukaemia,
CC inflammations, sinusitis, chronic obstructive pulmonary disease or
CC infectious diseases. The polypeptide or polynucleotide is also useful for
CC diagnosing any of these diseases or a susceptibility to the disease. The
CC present sequence is that of a human DNA sequence which is related to a
CC human respiratory system associated gene of the invention.
XX
XX Sequence 32146 BP; 8745 A; 6747 C; 7148 G; 9506 T; 0 U; 0 Other;
SQ
Query Match 37.7%; Score 150.6; DB 11; Length 32146;
Best Local Similarity 68.5%; Pred.No. 1.9e-31;
Matches 224; Conservative 1; Mismatches 95; Indels 7; Gaps 1;
QY 81 ATGCTGTATATCCAGCACTTCGGAGGCCCAAGTGGCGGATCACTTGAGTCAAGGA 140
DB 2437 ACGCTGTATATGCTAGCACTTGGAGGCCCAAGCGGAGGATCACTTGAGTCAAGGA 2378
QY 141 TCGAGACCATCTGCGCCCAATGAGAAACCCCGCTTTACTTAAATAACAAAATAGC 200
DB 2377 TTGAGACAAGCTGTGCGCCCAATGAGAAACCTGTCTTACTTAAATAACAAAATAGC 2318
QY 201 TGGGATGATGGCAACACCTGTAGTCCAGCTACTAGAG-----CCGAGATTGC 253
DB 2317 AGGGATGATGGCGGACCTGTAGTCCAGCTGTGGAGTCAAGCCAGAGAAATTG 2258
QY 254 AGTGAAGTGAATGCGAAGTGAAGCCGAATTCACAGATCAAGACTGAGAGTGAAGC 313
DB 2257 CTGGAACCCGGAGGCGAGGTGGAATGAGCCGAGATTGTACTAATGACAGAGAC 2198
QY 314 KCCGTCGAAAAACAACAACAAAAACAAATACATGATTTGCTCTGCGGTT 373
DB 2197 TCGCTCAAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAG 2138
QY 374 CCGAGACTATTGCGAGAGACCAAAAG 400
DB 2137 TCTGAGCAATATCTGATTTAACAAG 2111

XX	ADL13941/C
XX	ID ADL13941 standard; DNA; 125515 BP.
XX	AC ADL13941;
XX	ATGCTTTAATCCAGACTTTCGGAGAAGCGCAAGGTGGGCAGATCATTGAGGTCGAAGAGA
XX	DB 81
XX	ATGCTTTAATCCAGACTTTCGGAGAAGCGCAAGGTGGGCAGATCATTGAGGTCGAAGAGA
XX	DB 52801
XX	ATGCTTTAATCCAGACTTTCGGAGAAGCGCAAGGTGGGCAGATCATTGAGGTCGAAGAGA
XX	DB 141
XX	TTCGAGACCATTCTGGCCACAATGGTGAAACCCCGTCTTTAATAAATAAATAAATAATAC
XX	DB 52741
XX	TTCGAGACCAGCTGGCCACAATGGTGAAACCCCGTCTTTAATAAATAAATAAATAATAC
XX	DB 201
XX	TGGGCAATGGTGGCACACACCTGTAAGTCCAGGTCATCAGAGGCCGAGATTGAGAGAAC
XX	DB 52681
XX	CGGGCTGTTGTTGACACGACCTGTGATGCTCCAGGCTCTTAGAGACACACAGGCTTGACAGAAC
XX	52622

Oy		261	TGAATTCGACAGAGTGACCGAAATTCACAAGTCA CAGAGTGAGGTGACKCCGCTC			:	320
Dd		52621	CAGAATCATGCCTACTGCATCTCCACGCTCGGCCGA-----CAGAGCGAAGCTCCACCT				52571
Oy		321	CAAAAACACACACAAAAAACAAAAA				347
Dd		52570	CAAAAAAAAAAAAAAAAAAAAAAGA				52544
<hr/>							
RESULT 26							
ID	AAZ29204/C		standard; DNA; 17538 BP.				
XX	AAZ29204;						
DT	21-FEB-2000	(first entry)					
DE	Human myelin oligodendrocyte glycoprotein gene.						
KW	Human; myelin oligodendrocyte glycoprotein; MOG; NS-specific antigen;						
KM	nervous system-specific antigen; T cell; peripheral nervous system; PNS;						
KM	central nervous system; CNS; nerve regeneration; neuronal degeneration;						
KM	spinal cord injury; blunt trauma; penetrating trauma; senile dementia;						
KM	ischemic stroke; diabetic neuropathy; glioma; haemorrhagic stroke;						
KV	Alzheimer's disease; Parkinson's disease; Huntington's chorea;						
XX	amotrophic lateral sclerosis; ALS; treatment; ds.						
OS	Homo sapiens.						
XX							
Key	Location/Qualifiers						
FT	1166..15142						
CDS	/tag= a						
FT	/product= "myelin oligodendrocyte glycoprotein"						
FT	/note= "Reading frame is interrupted by introns the						
FT	precise location of which is not given in the						
FT	specification "						
PX	MO9960021-A2.						
PD	25-NOV-1999.						
XX							
PF	19-MAY-1999;	99MO-US010953.					
PR	19-MAY-1998;	98IL-00124550.					
PR	21-JUL-1998;	98MO-US014715.					
PR	22-DEC-1998;	98US-00218277.					
PA	(YEDA) YEDA RES & DEV CO LTD.						
PA	(MCIN/) MCINNIS P A.						
PI	Eisenbach-Schwartz M, Cohen IR, Beseman P, Mosonogo A, Moalem G;						
DR	WPI; 2000-072430/06.						
DR	P-PSDB; AAY44236.						
XX	New compositions useful to treat nervous system injury or disease e.g.						
PT	traumatic injury, Alzheimer's disease etc.						
PS	Claim 9; Fig 18; 92pp; English.						
XX	The present sequence is a gene encoding human myelin oligodendrocyte						
CC	glycoprotein which is a nervous system-specific antigen. The antigen or						
CC	peptides derived from it activate T cells in vivo. The present sequence						
CC	is used to promote nerve regeneration or to prevent or inhibit neuronal						
CC	degeneration caused by injury or diseases of nerves within the CNS or						
CC	PNS. Such injury includes spinal cord injury, blunt trauma, penetrating						
CC	trauma, haemorrhagic stroke or ischemic stroke, whilst diseases include						
CC	diabetic neuropathy, senile dementia, Alzheimer's disease, Parkinson's						
CC	disease, glaucoma, Huntington's chorea, amotrophic lateral sclerosis,						
CC	etc						
XQ	Sequence 17538 BP; 4624 A; 4121 C; 3990 G; 4803 T; 0 U; 0 Other;						

PX		XX	27-DEC-2002; 2002US-00330773.
PH		XX	(SAGR-) SAGRES DISCOVERY INC.
PA		XX	Morris DW, Malandro MS;
XX		XX	WPI, 2004-543781/52.
XX		XX	New isolated cancer associated nucleic acids comprising at least 10
XX		XX	contiguous nucleotides, useful for diagnosing, preventing and/or treating
PT		XX	cancers such as leukemia and lymphoma.
XX		XX	Claim 1; SEQ ID NO 672; 199pp; English.
XX		XX	The present invention relates to cancer associated sequences (ADQ97025-
CQ		CC	ADQ98004). The sequences are useful for the diagnosis, prevention and/or
CC		CC	treatment of cancer, such as leukemia and lymphoma. Note: The sequence
CC		CC	data for this patent did not form part of the printed specification, but
CC		CC	was obtained in electronic format directly from WFO at
CC		CC	ftp.wipo.int/pub/published_pct_sequences.
SQ		XX	Sequence 88892 BP; 25748 A; 16788 C; 17057 G; 27074 T; 0 U; 2225 Other;
Query Match	37.6%; Score 150.4; DB 12; Length 88892;		
Best Local Similarity	74.5%; Pred. No. 3e-31;		
Matches 204; Conservative 1; Mismatches 62; Indels 7; Gaps 1;			
OY	ATGCTGTAAATCCACAGACTTCGGGAGGCCAAGTGGGCGGATCACCCTGAGTCAGAAGA	140	
Dh	58516 ACGGCTGTAACTCCAGCACTTTGGGAGGCTGAGGCGGATGATCACCTGAGTCAGGAAT	58457	
OY	141 TCAGAACCATCTCTGGCCACAATGGTGMAACCCCGCTTTACTAAAATAACAAAAATTAGC	200	
Dh	58456 TCAGAACCAAGCTGACCAATGGTGMAACCCCATCTCTACTAAAATAACAAAAATTAGC	58397	
OY	201 TGGGCATGTGGGCGACACACTGTATGATGCCAGTACTCAGAAAA-----GCCGAGATTGC	253	
Dh	58396 TGGGCATGTGGGCGACACAGCTGTATTCAGCTACTCAGAGGCTGAGCGACAGAAATTG	58337	
OY	254 AGTAGCTGAGATCGCAGATGAGGCCGAATTCACAGATCCAGAGTAGCAGAGTAGAGNC	313	
Dh	58336 CTTAGAATTAAGTAGCTGAGATTCATGCCACTGCCTCCAGGCTCAGCGACAAGATGAGNC	58277	
OY	314 KCCTCTCAAAAAACAACAACAAAAA 347		
Dh	58276 TTGTCTCAAAAAAAAAAAGAAAAGAAAAA 58243		
RESULT 29			
ID	AAI61042 standard; cDNA; 4779 BP.		
AC	AAI61042;		
DT	22-OCT-2001 (first entry)		
DE	Human polynucleotide SEQ ID NO 5031.		
XX	Human; noctropic; immunosuppressant; cytostatic; gene therapy; cancer;		
KH	peripheral nervous system; neuropathy; central nervous system; CNS;		
KM	Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;		
KY	amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemoclastic;		
KZ	chemokinetic; thrombolytic; drug screening; arthritis; inflammation;		
KS	leukaemia; BS.		
OS	Homo sapiens.		
PN	WO20015312-A1.		
PD	26-JUL-2001.		
PF	26-DEC-2000; 2000WO-US034263.		

XX	23-DEC-1999;	99US-00471275.	
PR	21-JAN-2000;	2000US-00488725.	
PR	25-APR-2000;	2000US-00552317.	
PR	20-JUN-2000;	2000US-00598042.	
PR	19-JUL-2000;	2000US-00620312.	
PR	13-AUG-2000;	2000US-00653450.	
PR	14-SEP-2000;	2000US-00662191.	
PR	19-OCT-2000;	2000US-00693036.	
PR	29-NOV-2000;	2000US-00727344.	
XX			
XX			
PA	(HYSE-) HYSEQ INC.		
XX			
PI	Tang YF, Liu C, Abundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D,		
PI	Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J, Zhao QA,		
PI	Zhou P, Goodrich R, Dymac RT,		
XX			
DR	WPI, 2001-442253/47.		
XX	P-PSDB; AAM41886.		
XX			
PT	Novel nucleic acids and polypeptides, useful for treating disorders such		
PT	as central nervous system injuries.		
XX			
PS	Claim 1; SEQ ID NO 5031; 10078bp; English.		
XX			
CC	The invention relates to human nucleic acids (AA157798-AA161369) and the		
CC	encoded polypeptides (AAM38642-AAM42213) with neurotropic,		
CC	immunopressant and cytostatic activity. The polynucleotides are useful		
CC	in gene therapy. A composition containing a polypeptide or polynucleotide		
CC	of the invention may be used to treat diseases of the peripheral nervous		
CC	system, such as peripheral nervous injuries, peripheral neuropathy and		
CC	localised neuropathies and central nervous system diseases, such as		
CC	Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic		
CC	lateral sclerosis, and Shy-Drager Syndrome. Other uses include the		
CC	utilisation of the activities such as: Immune system suppression,		
CC	Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic		
CC	and thrombolytic activity, cancer diagnosis and therapy, drug screening,		
CC	assays for receptor activity, arthritis and inflammation, leukemias and		
CC	C.N.S disorders. Note: The sequence data for this patent did not form		
CC	part of the printed specification		
XX			
XX			
SO	Sequence 4779 BP; 1453 A; 960 C; 1048 G; 1318 T; 0 U; 0 Other;		
Query Match	37.5%; Score 150; DB 4; Length 4779;		
Best Local Similarity	79.7%; Pred. No. 1.6e-31;		
Matches 177; Conservative	0; Mismatches 45; Indels 0; Gaps 0;		
OY	81 ATGCGCTGTAATCCAGACATTGGGAGGCCAAGGTGGGCGGATCACTGAGGTCAAGAGA 140		
Db	4253 ACGCGTGTAAATCCAGACATTGGGAGGCCAAGGCTGGCAGATCACTGAGGTCAAGAGT 4312		
OY	141 TCGAGACATCTCTGTCGCCAACAATGGTGAACCCCGCTCTTTACTAAATAACAAAAATATGC 200		
Db	4313 TCAAGACCACGCTGGGCCAACAATGGTGAACCCCATCTCTTAATAAAATACAAAAATTATGC 4372		
OY	201 TGGGCGATGATGGGACACACACCTGTGTGTCGCCAGCTACTACAGAGCGCGAGATGTGAGTGC 260		
Db	4373 TGGGCGATGATGGGACACACACCTGTGTGTCGCCAGCTACTGTGGAGGCGTGGAGTGCAGTGAGC 4432		
OY	261 TGAGATCGCAGAGTGAAGCCGAATTCACAGATTCACAGATGGAG 302		
Db	4433 CGAGATTCGCGCACTGCATTCACGCTCTGGGCGAACAAGTGAAG 4474		
RESULT 30			
AEID18472			
ID	AEID18472 standard; DNA; 100998 BP.		
XX			
AC	AEID18472;		
XX			
DT	15-DEC-2005 (first entry)		
DE	Fibrotic disorder associated polynucleotide SEQ ID NO 723.		

XX	antiinflammatory; gene therapy; fibrogenesis; gene expression;
KM	therapeutic; diagnosis; uterine fibroids; gynecological; inflammation;
KM	ds.
XX	
OS	Homo sapiens.
PN	WO2005098041-A2.
XX	
PD	20-OCT-2005.
XX	
PF	28-MAR-2005; 2005MO-US010257.
XX	
PR	26-MAR-2004; 2004US-0556546P.
PR	19-OCT-2004; 2004US-0620444P.
PR	15-DEC-2004; 2004US-0636240P.
XX	
PA	(UYFL) UNIV FLORIDA RES FOUND INC.
XX	
PI	Chegini N, Luo X, Ding L, Williams RS;
XX	
DR	WPI; 2005-703565/72.
XX	
PT	Identifying a modulator of a gene that is differentially-expressed in
PT	fibrotic tissue or during fibrogenesis, or a polypeptide encoded by the
PT	gene, in a cell population by contacting the cell population with a test
PT	agent.
XX	
PS	Disclosure; SEQ ID NO 723; 202pp; English.
XX	
CC	The invention describes a method of identifying a modulator of at least
CC	one gene that is differentially-expressed in fibrotic tissue or during
CC	fibrogenesis, or a polypeptide encoded by the differentially-expressed
CC	gene, in a cell population, comprising contacting the cell population
CC	with a test agent, and determining if the test agent modulates the
CC	expression of the gene or biological activity of the polypeptide encoded
CC	by the gene. Also described are: detecting a fibrotic disorder in a
CC	subject; modulating gene expression in fibrotic tissue; and an array
CC	comprising a substrate having addresses, where each address has a capture
CC	probe that can specifically bind at least one polynucleotide that is
CC	differentially expressed in fibrotic disorders, or its complement. The
CC	method is useful in identifying a modulator of at least one gene that is
CC	differentially-expressed in fibrotic tissue or during fibrogenesis, or a
CC	polypeptide encoded by the differentially-expressed gene, in a cell
CC	population for preparing a composition for diagnosing or treating
CC	fibrotic disorders, e.g. uterine fibrosis. This sequence represents a
CC	polynucleotide associated with detection and treatment of fibrotic
CC	disorders. Note: This sequence does not appear in the printed
CC	specification but has been obtained in electronic format directly from
CC	WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX	
SO	Sequence 100998 BP; 25449 A; 22644 C; 23083 G; 29822 T; 0 U; 0 Other;
	Query Match 37.5%; Score 150; DB 14; Length 100998;
	Best Local Similarity 69.4%; Pred. No. 4.1e-31;
	Matches 225; Conservative 1; Mismatches 81; Indels 17; Gaps 1;
QY	30 GGAACCCCAATATTAATTAAGCATTTGTCAGGCCAGCATGACCTGGCTGAATCCCTGTA 89
DB	92984 GAAACCCCATCTTACTTAATAAGTACAAAATTTAGCCGGCGTGTCGGGTGCTCTGTA 93043
QY	90 ATCCAGCACTTCGGAGGCCAAGGTGGCGGCATCATCTTAGGTCAAGAGATGACAGCA 149
DB	93044 ATCCAGCACTTGGGAGGCCAAGAGGTGATCATCTTAGGTCAAGAGTTCAAGACCA 93103
QY	150 TCCTGGCCAACTGTTGAACCCCGTCTTTATCTAAATATCAAAAAATATGCTGGGCATGG 209
DB	93104 GCTTGGCCAAATGGTGAACCCCGTCTCTTAATAAAGTCAAAAAATACGCCCGGATGG 93163
QY	210 TGGCACACACCGTATGTCCTCCAGGCTACTCAGAGCGCGAGATTGGAGTGAAGTATGCG 269
DB	93164 TGGCAGCGCGCTGTATATCCACGACTACTCGGAGGCTGAGATCACTTGAACCTCGAGGCG 93223

QY	270	AGAGTGAAGCCGAATATCAACATCA	-----CAGACTGAGCGAGTGA	312
Db	93224	AGAGCGTCGACGTAGCGCGAGATCAGCCACTGCATCTTAGCCTGGGTGATGAGATGAAA	93283	
QY	313	CKCGCTCTCAAAAAACAACAACA	336	
Db	93284	CTCCATCTCTCAACAACAACAACA	93307	
RESULT 31				
ID	ABE96535/c	ABE96535 standard; DNA; 151909 BP.		
AC	ABE96535;			
DT	06-OCT-2005	(first entry)		
XX	Human CABIN1 gene, SEQ ID 19.			
XX	hepatitis C virus infection; antiinflammatory; hepatotropic; vircuide;			
KW	liver cirrhosis; fibrosis; hepatoma; SNP detection; CABIN1; ds.			
OS	Homo sapiens.			
FH	Key	Location/Qualifiers		
FT	variation	7588	/*tag= a	/*standard_name= "Single nucleotide polymorphism"
FT	variation	10001	/*tag= b	/*standard_name= "Single nucleotide polymorphism"
FT	variation	10054	/*tag= c	/*standard_name= "Single nucleotide polymorphism"
FT	variation	15316	/*tag= d	/*standard_name= "Single nucleotide polymorphism"
FT	variation	20223	/*tag= e	/*standard_name= "Single nucleotide polymorphism"
FT	variation	21408	/*tag= f	/*standard_name= "Single nucleotide polymorphism"
FT	variation	21444	/*tag= g	/*standard_name= "Single nucleotide polymorphism"
FT	variation	28376	/*tag= h	/*standard_name= "Single nucleotide polymorphism"
FT	variation	30258	/*tag= i	/*standard_name= "Single nucleotide polymorphism"
FT	variation	30421	/*tag= j	/*standard_name= "Single nucleotide polymorphism"
FT	variation	33211	/*tag= k	/*standard_name= "Single nucleotide polymorphism"
FT	variation	34724	/*tag= l	/*standard_name= "Single nucleotide polymorphism"
FT	variation	35061	/*tag= m	/*standard_name= "Single nucleotide polymorphism"
FT	variation	39325	/*tag= n	/*standard_name= "Single nucleotide polymorphism"
FT	variation	39373	/*tag= o	/*standard_name= "Single nucleotide polymorphism"
FT	variation	39912	/*tag= p	/*standard_name= "Single nucleotide polymorphism"

QY 144 AGACCATCTGCGCAACATGTTGAAACCCCGTCTTTACTATAAAATACAAAATATGCTGG 203
DB 527 AGACCCAGCTGCGCAACATGTTGAAACCCCGTCTTTACTATAAAATACAAAATATGCTGG 468
QY 204 GCATGTGCGCACACCTGTAGTCCAGCTACTCAGAGCGGAGATTGAG--TGAGCT 261
DB 467 GCATGTGCGCATGTGCTTATATCCAGCTACTTGGGAAGCTGAGGCGAGGAATCGCTT 408
QY 262 GAGATCGCAGAGTGAAGCGGAATATCAGATGACAGAGTGAAGTGAACKCCGCTTC 321
DB 407 GAACCTGGGAGGCGAGGCGCACTGCACCTCGGCGCAACAGATGAGGCTGTCTC 348
QY 322 AAAAACAACAACAAAAAACAATAAGCATGTGCTCATCTGCGTTCCAG 378
DB 347 CAAAAACAAAAACAAAAACAAAAACAAATTAACCCAAAGGAGATGCAAG 291

RESULT 32

ACN44170
ID ACN44170 standard; DNA, 196686 BP.

ACN44170;

18-NOV-2004 (first entry)

Human genomic sequence hCG39530.

Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.

Homo sapiens.

WO2003073826-A2.

12-SEP-2003.

28-FEB-2003; 2003WO-US006235.

01-MAR-2002; 2002US-00087192.

(SAGR-) SAGRES DISCOVERY.

Morris DW;

WPI; 2003-328604/31.

Recombinant nucleic acid useful for diagnosis and treatment of carcinoma comprises a nucleotide sequence.

Claim 1; SEQ ID NO 484; Opp: English.

The present invention relates to novel DNA and protein sequences which are associated with carcinomas. The sequences are useful for: (i) for screening drug candidates; (ii) for screening of bioactive agent capable of binding to Carcinoma Associated Protein (CAP); (iii) for screening of a bioactive agent capable of modulating the activity of CAP; (iv) for evaluating the effect of a candidate carcinoma drug; (v) for diagnosing carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip; (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for determining Carcinoma Associated (CA) gene copy number. In addition, the CA genes are useful as DNA vaccines and the CAP are useful as markers of carcinoma including lymphoma. The present sequence is one such CA coding sequence. Note: This patent is an equivalent to basic patent US2002182586A1, for which no sequence data was published

Sequence 196686 BP; 53978 A; 42758 C; 43862 G; 55372 T; 0 U; 716 Other;

Query Match 37.5%; Score 149.8; DB 11; Length 196686;

Best Local Similarity 76.3%; Pred. No. 5; 7e-31; Mismatches 58; Indels 2; Gaps 1;

Matches 196; Conservative 1; ATGCTGTATATCCAGCACTTGGAGGCGCAAGTGGCGGATCACTGAGGTCAAGAGA 140

DB 29937 ACGCTTATATCCAGCACTTGGGAGCGGAGTGAGCGGATCACTGAGGTGAGAGT 29996
QY 141 TCGAGCAATCTCTGCGCAACATGTTGAAACCCCGTCTTTACTATAAAATACAAAATATGCTGG 200
DB 29997 TCGAGCAATGCTGCGCAACATGTTGAAACCCCGTCTTTACTATAAAATATGCTGG 30056
QY 201 TGGGCAATGTTGCGCACACCTGTAGTCCAGCTACTCAGAGCGGAGATTGAGTGAAGC 260
DB 30057 TGGGCAATGTTGCGCACACCTGTAGTCCAGCTACTCAGAGCGGAGATTGAGTGAAGC 30116
QY 261 T-GAGATCGCAGAGTGAAGCGGAATATCAGATGACAGAGTGAAGTGAACKCCGCT 318
DB 30117 TTTGATGAGGAAGAGGCTGCTCATCTGCACTCGGCGCAACAGATGAGACTCTAA 30176
QY 319 CTCAAAAACAACAACA 335
DB 30177 CTCAAAAACAAAAA 30193

RESULT 33

ABL65836/C
ID ABL65836 standard; DNA, 5670 BP.

ABL65836;

15-MAY-2002 (first entry)

Lung cancer related gene sequence SEQ ID NO:4173.

Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid; stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;

cytostatic; gene therapy; antineoplastic; Wilms' tumour; adenocarcinoma; gene; ds.

Homo sapiens.

WO200194629-A2.

13-DEC-2001.

30-MAY-2001; 2001WO-US010838.

05-JUN-2000; 2000US-0209473P.
05-JUN-2000; 2000US-0209531P.
18-SEP-2000; 2000US-0233133P.
18-SEP-2000; 2000US-0233617P.
20-SEP-2000; 2000US-0234009P.
20-SEP-2000; 2000US-0234034P.
20-SEP-2000; 2000US-0234052P.
22-SEP-2000; 2000US-0234509P.
22-SEP-2000; 2000US-0234567P.
25-SEP-2000; 2000US-0234923P.
25-SEP-2000; 2000US-0234924P.
25-SEP-2000; 2000US-0235077P.
25-SEP-2000; 2000US-0235082P.
25-SEP-2000; 2000US-0235134P.
25-SEP-2000; 2000US-0235280P.
26-SEP-2000; 2000US-0235637P.
26-SEP-2000; 2000US-0235638P.
27-SEP-2000; 2000US-0235711P.
27-SEP-2000; 2000US-0235720P.
27-SEP-2000; 2000US-0235840P.
27-SEP-2000; 2000US-0235863P.
28-SEP-2000; 2000US-0236028P.
28-SEP-2000; 2000US-0236032P.
28-SEP-2000; 2000US-0236033P.
28-SEP-2000; 2000US-0236034P.
28-SEP-2000; 2000US-0236109P.
28-SEP-2000; 2000US-0236111P.
29-SEP-2000; 2000US-0236842P.
29-SEP-2000; 2000US-0236891P.
02-OCT-2000; 2000US-0237172P.

PR 02-OCT-2000; 2000US-0237173P.
 PR 02-OCT-2000; 2000US-0237278P.
 PR 02-OCT-2000; 2000US-0237294P.
 PR 02-OCT-2000; 2000US-0237295P.
 PR 02-OCT-2000; 2000US-0237316P.
 PR 03-OCT-2000; 2000US-0237425P.
 PR 03-OCT-2000; 2000US-0237598P.
 PR 03-OCT-2000; 2000US-0237604P.
 PR 03-OCT-2000; 2000US-0237606P.
 PR 03-OCT-2000; 2000US-0237608P.
 PR 01-NOV-2000; 2000US-0244867P.
 PR 01-NOV-2000; 2000US-0245084P.
 XX (AVAIL-) AVALON PHARM.
 XX
 XX Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;
 P1 Soppet DR, Weaver Z;
 XX
 DR WPI, 2002-188264/24.
 XX
 PR Screening for anti-neoplastic agent involves exposing cells to a chemical
 PR agent to be tested for anti-neoplastic activity, and determining a change
 PR in expression of a gene of a signature gene set.
 XX
 PS Claim 1; SEQ ID NO 4173; 44bp; English.
 XX
 CC The present invention describes a method (M1) for screening for an anti-
 CC neoplastic agent. The method involves exposing cells to a chemical agent
 CC to be tested for anti-neoplastic activity, determining a change in
 CC expression of at least one gene (I) of a signature gene set, where (I)
 CC comprises a sequence (S) selected from 8447 sequences (given in AB61664
 CC to AB170110), or is at least 95% identical to (S), where a change in
 CC expression is indicative of anti-neoplastic activity. (I) has cytostatic
 CC activity and can be used in gene therapy. M1 can be used for screening an
 CC anti-neoplastic agent, and can be used for producing a product which is
 CC the data collected with respect to the anti-neoplastic agent as a result
 CC of M1, and the data is sufficient to convey the chemical structure and/or
 CC properties of the agent. M1 can be used in the treatment of cancer such
 CC as colon, breast, stomach, lung, thyroid, oesophageal, ovarian, kidney,
 CC prostate or pancreatic cancer, adenocarcinoma, carcinoma, clear cell
 CC cancer, infiltrating ductal cancer, infiltrating lobular cancer, squamous
 CC cell carcinoma, neuroendocrine carcinoma, papillary carcinoma and Wilms
 CC tumour
 CC
 SQ Sequence 5670 BP; 1267 A; 1630 C; 1616 G; 1157 T; 0 U; 0 Other;
 Query Match 37.4%; Score 149.6; DB 6; Length 5670;
 Best Local Similarity 75.0%; Pred. No. 2.2e-31;
 Matches 201; Conservative 1; Mismatches 60; Indels 6; Gaps 1;

ID ACA64883 standard; DNA; 5670 BP.
 XX
 AC ACA64883;
 XX
 DT 27-JUN-2003 (first entry)
 XX
 DE Human MB-1 gene (CD79a-B cell) DNA corresponding to U05259.
 XX
 KW Human; chronic inflammatory joint disease; infection; tumour;
 KW antiinflammatory; cytostatic; antiarthritic; antineumatic;
 KW immunosuppressive; gene therapy; etiological pathogenicity; ds.
 XX
 OS Homo sapiens.
 XX
 FN DE10127572-A1.
 XX
 PD 05-DEC-2002.
 XX
 PF 30-MAY-2001; 2001DE-01027572.
 XX
 PR 30-MAY-2001; 2001DE-01027572.
 XX
 PA (PATH-) PATHOARRAY GMBH.
 XX
 PI Haepul T, Ungethuen U, Blesse S;
 XX
 DR WPI, 2003-240797/24.
 XX
 PR Reagents for diagnosis, study and therapy of chronic inflammatory joint
 PR and other diseases, comprises any of many specified genes or derived
 PR proteins.
 PT
 XX
 PS Claim 1; Page: 12pp; German.
 XX
 CC This invention describes a novel reagent for diagnosis, molecular
 CC definition and therapy of chronic inflammatory joint diseases, and other
 CC inflammatory disorders, infective or tumour diseases in humans. The
 CC products of the invention have antiinflammatory, cytostatic,
 CC antiarthritic, antineumatic and immunosuppressive activity and can be
 CC used for gene therapy. The reagent of the invention and any proteins and
 CC antibodies derived from it, are used (i) for analysing tissue and blood
 CC samples for medical diagnosis; (ii) for diagnosis and characterisation of
 CC chronic joint diseases, on the basis of molecular characterisation, and
 CC determining the etiological pathogenicity principle of as yet
 CC uncharacterised inflammatory diseases, also monitoring progression and/or
 CC treatment of disease, and optimisation of therapy and (iii) for
 CC developing treatments for inflammatory diseases, particularly of joints,
 CC infections and tumours. ACA64801-ACA64965 represent human polynucleotides
 CC used in the method of the invention
 CC
 SQ Sequence 5670 BP; 1267 A; 1630 C; 1616 G; 1157 T; 0 U; 0 Other;
 Query Match 37.4%; Score 149.6; DB 8; Length 5670;
 Best Local Similarity 75.0%; Pred. No. 2.2e-31;
 Matches 201; Conservative 1; Mismatches 60; Indels 6; Gaps 1;

Dbj 5067 GTCTCAAAAAAAAAAAAAAAAAA 5040

RESULT	35
AEF74508/c	
ID	AEF74508 standard; DNA; 5670 BP.

AC	AEF74508;
----	-----------

DT	06-APR-2006 (first entry)
----	---------------------------

Human polynucleotide #22.

KW Diagnosis; gene regulation; gene expression;
 KW post traumatic stress disorder; psychiatric disorder; tranquilizer; gene;
 KW ds.

Homo sapiens.

PN WO2006013561-A2.

PD 09-FEB-2006.

PF 02-AUG-2005; 2005WO-IL000824.

PR 02-AUG-2004; 2004US-0592408P.

PA (YISS) YISSUM RES DEV CO HEBREW UNIV JERUSALEM

XX

XX

 NATIONAL BUREAU OF ECONOMIC RESEARCH
 79 JOURNAL OF POLITICAL ECONOMY, Vol. 112, No. 1, February 2004

PT New kit comprising 10 and no more than 574 polynucleotides capable of
PT specifically binding at least one specific polynucleotide sequence,
PT useful for determining predisposition of a subject to develop PTSD, or
PT for diagnosing PTSD.

PS Claim 1; SEQ ID NO 22; 157pp; English.

The invention relates to a kit for determining predisposition of a subject to developing post-traumatic stress disorder (PTSD) comprising at least 10 and no more than 574 polynucleotides, where each of the polynucleotides is capable of specifically binding at least one specific polynucleotide sequence. The invention also relates to a kit for diagnosing PTSD in a subject, agents for the manufacture of the kits cited comprising the polynucleotides cited, and a microarray comprising at least 10 and no more than 904 oligonucleotides where each of the oligonucleotides is capable of specifically binding at least one specific polynucleotide sequence. The kit comprises each of the polynucleotides selected from an oligonucleotide molecule, a cDNA molecule, a genomic molecule and an RNA molecule. Each of the polynucleotides is at least 10 and no more than 50 nucleic acids in length. Each of the polynucleotides is bound to a solid support. The kit also comprises at least one reagent suitable for detecting hybridization of the polynucleotides and at least one RNA transcript. The kit further comprises packaging materials packaging the at least one reagent and instructions for using the kit in determining predisposition of the subject to developing PTSD, or for diagnosing the disease. The microarray comprises oligonucleotides of at least 10 and no more than 40 nucleic acids in length. The agent is capable of regulating an expression level of at least one gene as a pharmaceutical or for the manufacture of a medicament identified for preventing PTSD. The kit is useful for determining predisposition of a subject to developing PTSD or for diagnosing PTSD. This sequence represents a human polynucleotide of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published/pct/sequences](http://wipo.int/pub/published/pct/sequences).

Seq	2483
Sequence	5670 BP; 1267 A; 1630 C; 1616 G; 1157 T; 0 U; 0 Other;

Query Match	37.4%	Score 149.6;	DB 15;	Length 5670;
Best Local Similarity	75.0%	Pred. No. 2.2e-31;		
Matches 201; Conservative	1;	Mismatches 60;	Indels 6;	Gaps 1;

QY	83	GCCTGTATATCCACACACTTGGGAGGGCCAAAGTGGGAGATCACTGAGTCAAGATC	142
Db	5307	GCTGTATATCCACACTTTGGGAGGCCAAGTAGTGAATCACTGAGTCAAGATTC	5248
QY	143	GAGACCATCTGTGGCCAAATGTGTAACCCGCTTTACTTAAATAATCAAAAATATGCTG	202
Db	5247	AAGACCAAGTCTGGCCAAATGTGTAACCCGCTTTACTTAAATAATCAAAAATTAGCTG	5188
QY	203	GGCATGTGGGACACACTGTAGTCCAGACGTACTCAGAGCCGAGATTTGAGTGAGCTG	262
Db	5187	GGCATGTGGGACAGGCGCTGTATATCCAGCTTACTTGGAGGCTGAGGACGAGATCGCT	5128
QY	263	AGATCGCAGATGTAGCCGAATTCACAGATC-----ACAGATGAGCAGATGAGACCC	316
Db	5127	TGAACCCGAGGAGCAGAGTGTTCAGTGAAGCACTCAACCTGGCAACAGATGAGACTCT	5068
QY	317	GTTCTCAAAAACACAACTAAAAAACAAA	344
Db	5067	GTTCTCAAAAACAAAAAATAAAAA	5040

RESULT 36
AAK90749/c
ID AAK90749 standard; DNA; 8205 BP.

AC AAK90749;

DT 05-NOV-2001 (first entry)

DE Human digestive system antigen genomic sequence SEQ ID NO: 4325.

KW Human; digestive system antigen; gene therapy; cancer; appendicitis;
 KW ulcerative colitis; infection; Hirschsprung's disease; chronic colitis;
 KW digestive system disorder; Meckel's diverticulum; ds.

Homo sapiens.

PN WO200155314-A2

PD 02-AUG-2001

17-JAN-2001; 2001WO-US001324.

PR	31-JAN-2000	2000US-0179065P
PR	04-FEB-2000	2000US-0180628P
PR	24-FEB-2000	2000US-0184664P
PR	02-MAR-2000	2000US-0186350P
PR	16-MAR-2000	2000US-0190874P
PR	17-MAR-2000	2000US-0190707P
PR	18-APR-2000	2000US-0198153P
PR	19-MAY-2000	2000US-0205515P
PR	07-JUN-2000	2000US-0209467P
PR	28-JUN-2000	2000US-0214886P
PR	30-JUN-2000	2000US-0215135P
PR	07-JUL-2000	2000US-0216647P
PR	07-JUL-2000	2000US-0216680P
PR	11-JUL-2000	2000US-0217487P
PR	11-JUL-2000	2000US-0217496P
PR	14-JUL-2000	2000US-0218250P
PR	26-JUL-2000	2000US-0220963P
PR	26-JUL-2000	2000US-0220964P
PR	14-AUG-2000	2000US-0224518P
PR	14-AUG-2000	2000US-0224519P
PR	14-AUG-2000	2000US-0225213P
PR	14-AUG-2000	2000US-0225214P
PR	14-AUG-2000	2000US-0225266P
PR	14-AUG-2000	2000US-0225267P
PR	14-AUG-2000	2000US-0225268P
PR	14-AUG-2000	2000US-0225270P


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Db 5480 CCGGTGTGTTGTTGTCGCTTATATCCAGTCTCTACAGAGGAGGAGGTTGCGATGAC 5421
QY 261 TGAGATCGCAGAGTGAACCCGAATCAGATCAGAGTGAAGCAGAGTGAACCCGCTT 320
Db 5420 CAAAGACTGC-----GCCATTACTCCGCTGGGCAACAGACAAATCTCATCT 5369
QY 321 CAAAAACACACAAAAACAAAA 345
Db 5368 CAAAAAAGAAAAAAGAAAAAGACA 5344

RESULT 37
AA162948/c
ID AA162948 standard; DNA; 8205 BP.
AC AA162948;
XX 22-OCT-2001 (first entry)
DT 22-OCT-2001 (first entry)
DE Human genomic DNA SEQ ID NO 276.
XX
XX Human; neutrotrophic; neuroprotective; cytosolic; dermatological; vitruclide;
KM immunosuppressive; anti-infectious; anti-HIV; antibacterial; vulnery;
KM antiparkinsonian; antitickling; antianemic; antirheumatic; cancer;
KM antineumatic; hepatotropic; cerebroprotective; antiinflammatory;
KM antidiabetic; cardiac; antidiabetic; antidiabetic; antidiabetic;
KM antiparasitic; cardiac; immune disorder; cardiovascular disorder;
KM neurological disease; infection; nephrotrophic; gene therapy; vaccine; ds.
XX Homo sapiens.
OS
PN WO200155449-A1.
XX
PD 02-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001346.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUL-2000; 2000US-0216880P.
PR 14-JUL-2000; 2000US-0218290P.
PR 14-AUG-2000; 2000US-0225447P.
PR 01-SEP-2000; 2000US-0229343P.
PR 06-SEP-2000; 2000US-0230437P.
PR 08-SEP-2000; 2000US-0231243P.
PR 25-SEP-2000; 2000US-0234997P.
PR 29-SEP-2000; 2000US-0236367P.
PR 13-OCT-2000; 2000US-0239937P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246528P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249265P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
XX
XX (HUMA-) HUMAN GENOME SCT INC.
PA Rosen CA, Barash SC, Ruben SM;
PI
XX

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DR WPI; 2001-476225/51.
XX
PT Novel plasma membrane associated proteins useful for diagnosing,
PT treating, preventing and/or prognosting disorders related to the proteins,
PT including cancer, immune response and neuronal disorders.
XX
PS Example 2; SEQ ID NO 276; 532pp + Sequence Listing; English.
XX
CC The invention relates to novel genes (AA162948-AA162961) and proteins
CC (AA162948-AA162961) useful for preventing, treating or ameliorating
CC medical conditions e.g. by protein or gene therapy. The genes are
CC isolated from a range of human tissues disclosed in the specification.
CC The nucleic acids, proteins, antibodies and (ant)agonists are useful in
CC the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and
CC ovarian cancer and other cancers of the adrenal gland, bone, bone marrow,
CC breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune
CC disorders e.g. Addison's disease, allergies, autoimmune haemolytic
CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,
CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)
CC cardiovascular disorders such as myocardial ischaemia; (d) wound healing
CC ; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)
CC infectious diseases such as viral, bacterial, fungal and parasitic
CC infections. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WPI at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 8205 BP; 2216 A; 1646 C; 1763 G; 2580 T; 0 U; 0 Other;
XX
Query Match 37.3%; Score 149; DB 4; Length 8205;
Best Local Similarity 75.5%; Pred. No. 3.6e-31;
Matches 200; Conservative 1; Mismatches 56; Indels 8; Gaps 1;
QY 81 ATGCGTGAATCCAGACCTCGGAGGCGCAAGTGGCGGATCACTGAGTCAAGAGA 140
Db 5600 ATGCGTGAATCCAGACCTTTGGAAGGCCAAGCGGTGATCACTGAGTCAAGAGT 5541
QY 141 TCGAGACCATCTGCGCAACATGCTGAACCCCGCTTTACTAATAATACAAAAATAGC 200
Db 5540 TCGAGACCATGCTGCGCAACATGCTGAACCCCGCTTTACTAATAATACAAAAATAGC 5481
QY 201 TGGGCATGCTGCGCACACACCTGTATGTCAGCTCTCTAGAGAGCGGAGATTCAGTGAAC 260
Db 5480 CCGGTGTGTTGTTGTCGCTTATATCCAGTCTCTACAGAGGAGGAGGTTGCGATGAC 5421
QY 261 TGAGATCGCAGAGTGAACCCGAATCAGATCAGAGTGAAGCAGAGTGAACCCGCTT 320
Db 5420 CAAAGACTGC-----GCCATTACTCCGCTGGGCAACAGACAAATCTCATCT 5369
QY 321 CAAAAACACACAAAAACAAAA 345
Db 5368 CAAAAAAGAAAAAAGAAAAAGACA 5344

RESULT 38
AD079404
ID AD079404 standard; DNA; 89900 BP.
AC AD079404;
XX
XX 26-AUG-2004 (first entry)
DT 26-AUG-2004 (first entry)
DE DPF3 region, SEQ ID 3.
XX
XX Cytosolic; Gene therapy; breast cancer; human; DGL; KIA0783; DPF3;
KM CENPC1; gene; ds; SNP; single nucleotide polymorphism;
KM D4, zinc and double PHD fingers, family 3; CERD4; cer-d4; FLJ14079;
KM 2810403B03R1k; Rho family guanine-nucleotide exchange factor;
XX chromosome 14q24.3-q31.1.
XX
XX Homo sapiens.
OS
XX
XX Key Location/Qualifiers
FH variation 160

```

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FT	variation	/*tag= c /standard_name= "Single nucleotide polymorphism" /note= "This SNP is described as a G/A SNP" 36254
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FT	/note= "This SNP is described as a T/A SNP"
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PN	WO2004047514-A2.
PD	10-JUN-2004.
XX	
PF	25-NOV-2003; 2003MO-US037943.
XX	
PR	25-NOV-2002; 2002US--0429136P.
XX	
PP	24-JUL-2003; 2003US-0490234P.
XX	
PA	(SEQU-) SEQUENOM INC.
XX	
PI	Roth RB, Nelson MR, Braun A, Kammerer SM, Reneland R;
XX	
DR	WPI; 2004-441037/41.
XX	
PT	Identifying a subject at risk of breast cancer by detecting the presence
PT	of polymorphic variations in the DLG1, KIAA0783, DPF3 or CENPC1 regions
PT	which are associated with breast cancer in a nucleic acid sample from a
PT	subject.
PS	Claim 24; Fig 3; 227bp; English.
XX	
XX	
Query Match	37.3%; Score 149; DB 12; Length 89900;
Best Local Similarity	76.4%; Pred. No. 7.5e-31;
Matches 207; Conservative	1; Mismatches 61; Indels 2; Gaps 2,
OY	81 ATGCCCTGTAAATCCCAAGCACTTGGGAGGCCAAGGTGGGCGGATCACTCGAGSTCAAGA 140
DB	3670 ATGCCCTGTAAATCCCAAGCACTTGGGAGGCTGAAGTGTTGCCTGAGGTCAGAGT 3722
OY	141 TCAGACCATCCTGGACCACAATGATGTGAACCCCGCTTTTAATAAAAAATACAAAATATAGC 200
DB	3730 TCAGAACCAAGCTTGCCCAACATGTGTGACACCCCCGTCTACTCAAAAAATACAAAATATTGCG 3788
OY	201 TGGGCAATGGTGGCACACACTGTAGTCCCAAGTCTCAAGAGCCG-GAGATTGCAAGTAG 259
DB	3790 TGGGCGCTGTGTGCAACAGCGCTGTAAATCCCAAGTCAAGAGTCCCTGAACTCAAGAAAG 3844
OY	260 CTGAGATGCGACAGTAGAGCGCAAAATACACAGATCACAGAGTAG-CAGAGTGGAGACKCGT 318
DB	3850 TTGTGTGTGATTGGGATTGTGCCACTGCAGCTCAGCGCTGGCGACAGGAGTGAAGTCTGT 3905
OY	319 CTCAAAAACAACACAAAAACMAAAAAACC 349
DB	3910 CTAAAAAANAAAAAAAAAAAAAAAAAAC 3940
RESULT 39	
ID	AEP92655/c
XX	AEP92655 standard; cDNA; 174318 BP.
XX	
AC	AEP92655;
XX	
DT	20-APR-2006 (first entry)
XX	
DE	Human Ras effector protein Rin3, cDNA.
XX	
KW	Diagnostics; ss; gene; neurodegenerative disease; Alzheimers disease;

KW dementia,cognitive disorder; Parkinsons disease; microarray;
 KM neuroprotective; nootropic; antiparkinsonian; screening; prognosis.
 OS Homo sapiens.
 PN MO2006020269-A2.
 PD 23-FEB-2006.
 XX 19-JUL-2005; 2005MO-US025491.
 XX 19-JUL-2004; 2004US-0589318P.
 PA (UVRP) UNIV ROCHESTER.
 PI Coleman PD, Federoff HJ, Maguire-Zeiss K, Myhre TR, Kurian RM;
 PI Cox C, Marshall F;
 XX WPI; 2006-184393/19.
 PT Use of biomarkers for neurodegenerative disease for, e.g. diagnosing
 PT neurodegenerative disease, screening therapeutic agent for treating
 PT neurodegenerative disease, or monitoring neurodegenerative disease
 PT progression.
 PS Example 1; SEQ ID NO 82; 552bp; English.
 XX The invention relates to using a biomarker for a neurodegenerative
 CC disease for diagnosing a neurodegenerative disease, screening a
 CC therapeutic agent for treating a neurodegenerative disease, monitoring a
 CC neurodegenerative disease progression, monitoring a response to a
 CC neurodegenerative disease treatment, identifying a risk for a
 CC neurodegenerative disease, and differentially diagnosing a
 CC neurodegenerative disease in a test subject. Also included are diagnosing
 CC a neurodegenerative disease in a subject, screening for a therapeutic
 CC agent for the treatment of a neurodegenerative disease, monitoring a
 CC neurodegenerative disease progression in a subject, monitoring a response
 CC to a neurodegenerative disease treatment in a subject, identifying a risk
 CC for a neurodegenerative disease in a test subject, differentially
 CC diagnosing a neurodegenerative disease in a test subject, a solid support
 CC (comprising one or more biomarkers, where the biomarker is one or more
 CC proteins comprising HSP60, Dihydropyrimidine dehydrogenase, ER-60
 CC protease, Glucose-6-phosphate dehydrogenase, Atp-synthase beta chain,
 CC Annexin I, 14-3-3 epsilon, Prohibitin, Phosphoglycerate mutase 1,
 CC Apolipoprotein A1, Superoxide dismutase, RNA-binding protein, regulatory
 CC subunit, Chain A thioesteroxidase B, RAS-related protein RAP1B,
 CC Tumor rejection antigen, Haptoglobin, Fibrin beta, or its combinations)
 CC and a solid support comprising one or more biomarkers (where the
 CC biomarker is one or more transcripts comprising cyclin D1, cyclin B,
 CC cyclin G1, weel, hnr2, CD25b, GSK3 beta, protein kinase C alpha, C5, C1
 CC inhibitor, IL-11R, IL-8, LIF, TNF-alpha, IL-10R, Alpha-1
 CC antichymotrypsin, HSP 27, HSP 90, crystaline, GAPDH, ferritin H,
 CC ferritin L, Cox 1, Cox 2, transferrin, or its combinations). The
 CC biomarkers for the neurodegenerative disease are useful for diagnosing a
 CC neurodegenerative disease, screening a therapeutic agent for treating a
 CC neurodegenerative disease, monitoring a neurodegenerative disease
 CC progression monitoring a response to a neurodegenerative disease
 CC treatment, identifying a risk for a neurodegenerative disease, and
 CC differentially diagnosing a neurodegenerative disease, e.g. Alzheimer's
 CC disease and Parkinson's disease, in a test subject. The present sequence
 CC is a cDNA for a human biomarker, used in a microarray in the method of
 CC the invention. NOTE: The specification describes ABE92574-ABE92813 (table
 CC 4) as cDNA sequences yet some are protein sequences and some genomic DNA.
 XX
 SQ Sequence 174318 BP; 43826 A; 41095 C; 42605 G; 46792 T; 0 U; 0 Other;
 Query Match 37.3%; Score 149; DB 15; Length 174318;
 Best Local Similarity 73.5%; Pred. No. 9.2e-11;
 Matches 202; Conservative 1; Mismatches 71; Indels 1; Gaps 1;

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OY 144 AGACGATCTGGCCACATGTTGAAAACCCGCTTACTTAATAATACAAAAATAGCTGG 203
FT
FT variation
FT /standard_name= "Single nucleotide polymorphism (SNP)"
DB 82901 AGACGAGCTGGCCACATGTTGAAAACCCGCTTACTTAATAATACAAAAATAGCCGAG 82842
FT
FT /tag= m
FT /standard_name= "Single nucleotide polymorphism (SNP)"
OY 204 GCATGATGGACACACCTGTAGTCCAGCTACTCAGAGACCGGAGATTGTCAGTGAGCTGA 263
FT
FT variation
FT /tag= n
FT /standard_name= "Single nucleotide polymorphism (SNP)"
DB 82841 GCGTGTGGACACCGCTGTAGTCCAGCTACTTGGGAGGCTGAGGACGAGAAATCGCTT 82782
FT
FT variation
FT /tag= o
FT /standard_name= "Single nucleotide polymorphism (SNP)"
OY 264 GATGCGAGATGAGCCGAAATCATCAGATCATCAGAGTGAAG-CAGAGTGAGACKCCGCTTCA 322
FT
FT variation
FT /tag= p
FT /standard_name= "Single nucleotide polymorphism (SNP)"
DB 82781 GAACCCAGAGGTGAGGTTGACAGTGAATTGCGCCACTGCAAGACTCTGTCTCA 82722
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FT variation
FT /tag= q
FT /standard_name= "Single nucleotide polymorphism (SNP)"
OY 323 AAAACACACACAAAAACAAAAACCATTAAGACA 357
FT
FT variation
FT /tag= r
FT /standard_name= "Single nucleotide polymorphism (SNP)"
DB 82721 CCAAAAAAAAAAAAAAAAAAGAAAAAGAAAAA 82687
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FT variation
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RESULT 40
ADX98573.
ID ADX98573 standard; DNA; 285300 BP.
XX
XX ADX98573;
XX
XX 05-MAY-2005 (first entry)
XX
XX Human D4, zinc and double PHD fingers, family 3 (DPF3) genomic DNA.
XX
XX SNP detection; breast tumor; endocrine disease;
XX gene therapy; RNA interference; neoplasm; cytostatic; metastasis;
XX single nucleotide polymorphism;
XX D4, zinc and double PHD fingers, family 3; DPF3;
XX guanine-nucleotide exchange factor.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX 207
XX variation
XX /tag= a
XX /standard_name= "Single nucleotide polymorphism (SNP)"
FT 486
FT variation
FT /tag= b
XX /standard_name= "Single nucleotide polymorphism (SNP)"
FT 1745
FT variation
XX /tag= c
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FT 1922
FT variation
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FT variation
XX /tag= e
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FT 2590
FT variation
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FT 2637
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FT 2804
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FT 2806
FT variation
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FT 2895
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FT /tag= m
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FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 3805
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FT 4509
FT variation
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FT /standard_name= "Single nucleotide polymorphism (SNP)"
FT 4959
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FT 5009
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FT 5676
FT variation
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FT 6507
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FT 6717
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FT 7873
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FT 10823
FT variation
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FT 11639
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XX /standard_name= "Single nucleotide polymorphism (SNP)"
FT 12177
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XX /tag= ah
XX /standard_name= "Single nucleotide polymorphism (SNP)"
FT 12604
FT variation
XX /tag= ai
XX /standard_name= "Single nucleotide polymorphism (SNP)"
FT 13363
FT variation
XX /tag= aj
XX /standard_name= "Single nucleotide polymorphism (SNP)"
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FT      /standard_name= "Single nucleotide polymorphism (SNP)"
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FT      variation
FT      /tag= al
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      13540
FT      variation
FT      /tag= am
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      13923
FT      variation
FT      /tag= an
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      14507
FT      variation
FT      /tag= ao
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      16550
FT      variation
FT      /tag= ap
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      17641
FT      variation
FT      /tag= aq
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      18903
FT      variation
FT      /tag= ar
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
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FT      variation
FT      /tag= as
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      19527
FT      variation
FT      /tag= at
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
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FT      variation
FT      /tag= au
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
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FT      variation
FT      /tag= av
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      20562
FT      variation
FT      /tag= aw
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      20907
FT      variation
FT      /tag= ax
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      20949
FT      variation
FT      /tag= ay
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      21278
FT      variation
FT      /tag= az
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      21314
FT      variation
FT      /tag= ba
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      21905
FT      variation
FT      /tag= bb
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      22252
FT      variation
FT      /tag= bc
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      22941
FT      variation
FT      /tag= bd
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      23542
FT      variation
FT      /tag= be
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      24677
FT      variation
FT      /tag= bf
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      25009
FT      variation
FT      /tag= bg
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      25618
FT      variation
FT      /tag= bh
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      26082
FT      variation
FT      /tag= bi
FT      /standard_name= "Single nucleotide polymorphism (SNP)"
FT      26136

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FT      /tag= bi
FT      Query Match 37.3%; Score 149; DB 14; Length 285300;
FT      Best Local Similarity 76.4%; Pred. No. 1.1e-30;
FT      Matches 207; Conservative 1; Mismatches 61; Indels 2; Gaps 2;
OY      81 ATGCGTAAATCCGAGCACTTCGGAGCGCAAGGTGGCGGATCACCTGAGTCAAGAGA 140
DB      164620 ATGCGTAAATCCGAGCACTTCGGAGCGTGAAGTGGATGCGCTGAGGTCAAGAGT 164679
OY      141 TCGAGACCATCTGGCCCAACATGCTGAACCCCGCTCTTACTTAAATACAAAAATAGC 200
DB      164680 TCGAGACCATCTGGCCCAACATGCTGAACCCCGCTCTTACTTAAATACAAAAATAGC 164739
OY      201 TGGGCATGTTGGGCGACACACCTGTATGTCCTCAGCTACAGAGCGG-CAGATTGAGTGAG 259
DB      164740 TGGGCTGTGGCGACAGCCCTGTATTCACACTACTCAAGAGTGGCTTTGAATCAAGAG 164799
OY      260 CTGAGATCGCAGAGTGAAGCCGAATTCACAGATCAGAGTGAG-CAGAGTGAGACCKCGT 318
DB      164800 TTGTGTGAGTTGGGATTTGTCCTGCACTCCAGCCCTGGGCGACAGGTTGAGACTGT 164859
OY      319 CTCAAAAACACACACAAAAACAAAAAACC 349
DB      164860 CTCAAAAACACACACAAAAACAAAAAACC 164890

RESULT 41
ABK83568/c
ID ABK83568 standard; DNA; 201143 BP.
XX
AC ABK83568;
XX
DT 29-AUG-2002 (first entry)
XX
DE Human DNA differentially expressed in granulocytic cells #139.
XX
KW Human; ds; granulocytic cell; DNA chip; bacterial infection;
KW viral infection; parasitic infection; protozoal infection;
KW fungal infection; sterile inflammatory disease; psoriasis;
KW rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;
KW cardiac reperfusion injury; renal reperfusion injury; AIDS;
KW adult respiratory distress syndrome; inflammatory bowel disease;
KW Crohn's disease; ulcerative colitis; periodontal disease;
KW granulocyte activation; chronic inflammation; allergy.
XX
OS Homo sapiens.
XX
PN W0200228999-A2.
XX
PD 11-APR-2002.
XX
PF 03-OCT-2001; 2001WO-US030821.
XX
PR 03-OCT-2000; 2000US-0237189P.
XX
PA (GENE-) GENE LOGIC INC.
XX
PI Beazer-Barclay Y, Weissman SM, Yamaga S, Vockley J;
XX
DR WPI; 2002-435328/46.
XX
PT Detecting granulocyte activation by detecting differential expression of
PT genes associated with granulocyte activation, which serves as diagnostic
PT markers that is useful for monitoring disease states and drug toxicity.
XX
PS Claim 1; SEQ ID NO 139; 114bp; English.
XX
CC The invention relates to detecting (M1) granulocyte (GC) activation
CC (GCA), by detecting the level of expression of gene(s) (Gs) identified by
CC DNA chip analysis as given in the specification, and comparing the
CC expression level to an expression level in an unactivated GC, where
CC differential expression of Gs is indicative of GCA. Also included are

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modulating (M2) GA by contacting GC with an agent that alters the expression of at least one gene in Gs; (2) screening (M3) for an agent capable of modulating GCA or an inflammation (especially chronic) in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease using the gene expression profile; (3) detecting (M4) an inflammation (especially chronic) in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease, by detecting the level of expression in a sample of the tissue of gene(s) from Gs, where the level of expression of the gene is indicative of inflammation; (4) treating (M5) an inflammation (especially chronic) or in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease, by contacting a tissue having inflammation with an agent that modulates the expression of gene(s) from Gs in the tissue. M1 is useful for detecting GCA; M2 is useful for modulating GA; M3 is useful for screening an agent capable of modulating GCA preferably in an inflammation (especially chronic) in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease; M4 is useful for detecting an inflammation (especially chronic) in a tissue, an allergic response in a subject, exposure of a subject to a pathogen or sterile inflammatory disease; M5 is useful for treating one of the above conditions. The present sequence represents a gene differentially expressed in granulocytes. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences

Sequence 201143 BP; 50606 A; 49308 C; 49683 G; 51546 T; 0 U; 0 Other;

Query Match 37.2%; Score 148.8; DB 6; Length 201143;

Best Local Similarity 70.7%; Pred. No. 1.1e-30; Matches 229; Conservative 1; Mismatches 83; Indels 11; Gaps 2;

```

37  AAAAAAAAAAGACATTGTCAAGCCAGCATGACATCGCTGAATGCTTAAATCCAG 96
Db  3229  ACATTTTAAACAATATTAATTCAGGCGAGCATG---GTGGCTCATGTGCTTAAATCCAG 3174

97  CACTTCGGAGAGCCAAAGGTGGCGGATCACCAGTCAAGATGAGATGAGACCATCTGGC 156
Db  3173  CACTTTTGGAGGCTGAGACTGAGATCACTGAGGTCAAGGTTGAGAACCCAGCTGAC 3114

157  CAACATGTGTAACCCCGTCTTTACTTAAATAATCAAAAATTAAGCTGGCATGTGGACA 216
Db  3113  CAACATGTGTAACCCCGTCTTTACTTAAATAATCAAAAATTAAGCCAGCATGTGGACG 3054

217  CACTGTATGTCCAGCTACTGAGA-----GCCGAGATTGCGATGAGCTGAGATGCG 269
Db  3053  CACTGTATGTCCAGCTACTGAGAGGCTGAGGCGAGAAATCGCTTGAACCTTGAAGGC 2994

270  AGAGTGAGCCGGAATCAAGATCAAGAGTGAAGCAGATGAGACCCCTTCAAAAAA 329
Db  2993  GAGGTTTCAGAGAGCTGAGTTGGTATGCGAGCAGACCAAAATCTGTCAAAAAAAA 2934

330  CAACAAAAAACAACCAATTA 353
Db  2933  AATTTCGATGAATGAACCAAAA 2910

```

RESULT 42

ADA02774/c standard; DNA; 44075 BP.

ADA02774;

06-NOV-2003 (first entry)

Human ARHGEF1 carcinoma associated gene, SEQ ID NO:1292.

Human; carcinoma associated; oncogene; carcinoma; cancer; breast;

prostate; lymphoma; leukaemia; cytostatic; gene therapy; drug screening; gene; ds.
Homo sapiens.
MO2003057146-A2.
17-JUL-2003.
26-DEC-2002; 2002WO-US041414.
26-DEC-2001; 2001US-00035832.
(SAGR-) SAGRES DISCOVERY.
Morris DW;
WPI, 2003-587068/55.
New recombinant nucleic acid encoding carcinoma associated protein, useful for preparing compositions for treating carcinomas.

Claim 1; SEQ ID NO 1292; 245bp; English.

The invention relates to recombinant carcinoma associated (CA) nucleic acid sequences from mouse and human (ADA01482-ADA03094), and to recombinant carcinoma associated proteins (CAP) encoded by them. The invention also encompasses expression vectors and host cells comprising a CA nucleic acid, a polypeptide (especially an antibody) that specifically binds to the protein, and a biolchip comprising CA nucleic acid or fragments thereof. The sequences of the invention were identified using oncogenic retroviruses, which insert into the genome of the host organism at random. Many of these do not carry transduced host oncogenes or pathogenic trans-acting viral genes, meaning that cancer incidence is a direct consequence of the effects of proviral integration into host protooncogenes. The CA nucleic acid sequences can be used to diagnose carcinoma (especially breast cancer, prostate cancer, lymphoma or leukaemia) or a propensity to carcinoma by determination of the sequence of a CA gene, or by determination of CA gene expression in particular tissues. CA nucleic acids, proteins and antibodies are also useful as therapeutic agents and in screening and evaluating drug candidates. The present sequence represents a specifically claimed human CA nucleic acid sequence of the invention. Note: The complete sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 44075 BP; 8314 A; 11402 C; 11137 G; 8371 T; 0 U; 4851 Other;

Query Match 37.2%; Score 148.6; DB 9; Length 44075;

Best Local Similarity 74.9%; Pred. No. 7.7e-31; Matches 200; Conservative 1; Mismatches 60; Indels 6; Gaps 1;

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83  GCGTGTATCCACACCTTGGAGGCCAAGTGGCGGACCTGAGGTCAAGAGTTC 142
Db  8665  GCGTGTATCCACACCTTGGAGGCCAAGTGGAGTGCATGAGGTCAAGAGTTC 8606

143  GAGACCATCTGCGCAACATGTAAGAACCCGCTTTACTTAAATAATCAAAAAATAGCTG 202
Db  8605  AAGACCATCTGCGCAACATGTAAGAACCCGCTTTACTTAAATAATCAAAAAATAGCTG 8546

203  GGCATGTGGGACACACCTGTAGTCCAGCTACTCAAGAGCCGAGATTGAGTGAAGCTG 262
Db  8545  GGCATGTGGGACAGCGCTGTAAATCCAGCTACTTGGAGGCTGAGGACGAGATTCGCT 8486

263  AGATGAGAGTGAAGCGGAATACAGATC-----ACAGAGTGAAGAGTGAAGACGCC 316
Db  8485  TGAACCCGAGAGGAGGTTGCAGTGACATCCAACTGGGCAAGAGTGAAGACTCT 8426

317  GTCTCAAAAAACAACCAACAAA 343
Db  8425  GTCTCAAAAAACAACCAACAAA 8399

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RESULT 43
ADB72512/C
ID ADB72512 standard; DNA; 44075 BP.
XX
XX ADB72512;
XX
AC
AC ADB72512;
XX
XX 04-DEC-2003 (first entry)
XX
XX Human ARHGEF1 gene.
XX
XX human; ds; cytosolic; gene therapy; vaccine; carcinoma; lymphomas;
XX cancer; neoplasm; adenocarcinoma; sarcoma; gene.
XX
XX Homo sapiens.
XX
XX MO2003008583-A2.
XX
XX 30-JAN-2003.
XX
XX 26-DEC-2001; 2001WO-US051291.
XX
XX 02-MAR-2001; 2001US-00798586.
XX 23-OCT-2001; 2001US-00004113.
XX 08-NOV-2001; 2001US-00052482.
XX 30-NOV-2001; 2001US-00997722.
XX 20-DEC-2001; 2001US-00034650.
XX
XX (SAGR-) SAGRES DISCOVERY.
XX
XX Morris DW, Engelhard EK;
XX
XX WPI; 2003-239337/23.
XX
XX New recombinant nucleic acid, useful for treating carcinomas, lymphomas,
XX cancers, neoplasm, adenocarcinoma, or sarcomas.
XX
XX Claim 1; SEQ ID NO 340; 2304pp; English.
XX
XX The invention relates to a novel recombinant nucleic acid comprising a
XX nucleotide sequence selected from any of the 660 sequences fully defined
XX in the specification. A polynucleotide of the invention has cytosolic
XX activity, and may have a use in gene therapy, or in a vaccine. The
XX recombinant nucleic acids and polypeptides are useful for treating
XX carcinomas, e.g. lymphomas, cancers, neoplasm, adenocarcinoma, and
XX sarcomas. The present sequence represents a human gene of the invention.
XX
XX Sequence 44075 BP; 8314 A; 11402 C; 11137 G; 8371 T; 0 U; 4851 Other;
XX
Query Match 37.2%; Score 148.6; DB 10; Length 44075;
Best Local Similarity 74.9%; Pred. No. 7.7e-31;
Matches 200; Conservative 1; Mismatches 60; Indels 6; Gaps 1;
XX
QY 83 GCGTGTATCCAGCACTTCGGAGGCCAAGGTGGCGGATCAGTCAAGTCAAGATC 142
DB 8665 GCGTGTATCCAGCACTTCGGAGGCCAAGGTGGCGGATCAGTCAAGTCAAGATC 142
DB 8665 GCGTGTATCCAGCACTTCGGAGGCCAAGGTGGCGGATCAGTCAAGTCAAGATC 142
QY 143 GAGACATCTGCGCAACATGTGAAACCCGCTTTTACTTAAATAACAAAAATAGCTG 202
DB 8605 AAGACATCTGCGCAACATGTGAAACCCGCTTTTACTTAAATAACAAAAATAGCTG 202
DB 8605 AAGACATCTGCGCAACATGTGAAACCCGCTTTTACTTAAATAACAAAAATAGCTG 202
QY 203 GGCATGTGGGACACACCTGTAGTCCAGCTACTCAGAGCGGAGATTGACAGTGC 262
DB 8545 GGCATGTGGGACACACCTGTAGTCCAGCTACTCAGAGCGGAGATTGACAGTGC 262
DB 8545 GGCATGTGGGACACACCTGTAGTCCAGCTACTCAGAGCGGAGATTGACAGTGC 262
QY 263 AGATGCGAGAGTGAGCCGAATTCACAGATC-----ACAGAGTGAGAGAGTGAACGCC 316
DB 8485 TGAACCGAGAGGAGAGAGTTCAGTGAAGCACTCAACCTGGGCAACAGAGTGAAGTCT 8426
DB 8485 TGAACCGAGAGGAGAGAGTTCAGTGAAGCACTCAACCTGGGCAACAGAGTGAAGTCT 8426
QY 317 GTCTCAAAAAACACACAAAAACAAA 343
DB 8425 GTCTCAAAAAACACACAAAAACAAA 343
DB 8425 GTCTCAAAAAACACACAAAAACAAA 343
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RESULT 44
ADC85254/C
ID ADC85254 standard; DNA; 44075 BP.
XX
XX ADC85254;
XX
AC
AC ADC85254;
XX
XX 01-JAN-2004 (first entry)
XX
XX Human Arhgef1 genomic sequence.
XX
XX Cytosolic; gene therapy; vaccine; cancer; carcinoma-associated gene; CA;
XX secreted; transmembrane; intracellular; ds.
XX
XX Homo sapiens.
XX
XX MO2003045230-A2.
XX
XX 05-JUN-2003.
XX
XX 02-DEC-2002; 2002WO-US038582.
XX
XX 30-NOV-2001; 2001US-00997722.
XX
XX (SAGR-) SAGRES DISCOVERY.
XX
XX Morris DW, Engelhard EK;
XX
XX WPI; 2003-513603/48.
XX
XX New recombinant nucleic acid comprising a nucleotide sequence of any of
XX the carcinoma-associated (CA) genes, useful for screening for drug
XX candidates for diagnosing or treating carcinomas.
XX
XX Claim 1; SEQ ID NO 40; 983pp; English.
XX
XX The invention relates to a recombinant nucleic acid comprising a
XX nucleotide sequence selected from any of the fully defined carcinoma-
XX associated (CA) genes from the 50 tables given in the specification. The
XX CA proteins are secreted, transmembrane or intracellular proteins. The
XX recombinant nucleic acids are useful for screening for drug candidates
XX for diagnosing or treating carcinomas. Sequences given in ADC85215-
XX ADC85514 represent CA genes of the invention.
XX
XX Sequence 44075 BP; 8314 A; 11401 C; 11138 G; 8371 T; 0 U; 4851 Other;
XX
Query Match 37.2%; Score 148.6; DB 10; Length 44075;
Best Local Similarity 74.9%; Pred. No. 7.7e-31;
Matches 200; Conservative 1; Mismatches 60; Indels 6; Gaps 1;
XX
QY 83 GCGTGTATCCAGCACTTCGGAGGCCAAGGTGGCGGATCAGTCAAGTCAAGATC 142
DB 8665 GCGTGTATCCAGCACTTCGGAGGCCAAGGTGGCGGATCAGTCAAGTCAAGATC 142
DB 8665 GCGTGTATCCAGCACTTCGGAGGCCAAGGTGGCGGATCAGTCAAGTCAAGATC 142
QY 143 GAGACATCTGCGCAACATGTGAAACCCGCTTTTACTTAAATAACAAAAATAGCTG 202
DB 8605 AAGACATCTGCGCAACATGTGAAACCCGCTTTTACTTAAATAACAAAAATAGCTG 202
DB 8605 AAGACATCTGCGCAACATGTGAAACCCGCTTTTACTTAAATAACAAAAATAGCTG 202
QY 203 GGCATGTGGGACACACCTGTAGTCCAGCTACTCAGAGCGGAGATTGACAGTGC 262
DB 8545 GGCATGTGGGACACACCTGTAGTCCAGCTACTCAGAGCGGAGATTGACAGTGC 262
DB 8545 GGCATGTGGGACACACCTGTAGTCCAGCTACTCAGAGCGGAGATTGACAGTGC 262
QY 263 AGATGCGAGAGTGAGCCGAATTCACAGATC-----ACAGAGTGAGAGAGTGAACGCC 316
DB 8485 TGAACCGAGAGGAGAGAGTTCAGTGAAGCACTCAACCTGGGCAACAGAGTGAAGTCT 8426
DB 8485 TGAACCGAGAGGAGAGAGTTCAGTGAAGCACTCAACCTGGGCAACAGAGTGAAGTCT 8426
QY 317 GTCTCAAAAAACACACAAAAACAAA 343
DB 8425 GTCTCAAAAAACACACAAAAACAAA 343
DB 8425 GTCTCAAAAAACACACAAAAACAAA 343
```

RESULT 45
ADM74369/c

ID ADM74369 standard; DNA; 44075 BP.
 AG ADM74369;
 XX
 XX 01-JUL-2004 (first entry)
 XX
 XX Human carcinoma associated (CA) nucleic acid #19.
 DB
 XX Human; carcinoma associated nucleic acid; CA nucleic acid; gene; db;
 XX carcinoma associated protein; CAP; carcinoma; leukemia; lymphoma;
 XX cytosolic.
 XX Homo sapiens.
 OS
 XX US2004072154-A1.
 XX
 XX 15-APR-2004.
 XX
 XX 30-NOV-2001; 2001US-00997722.
 XX
 XX 22-DEC-2000; 2000US-00747377.
 XX 02-MAR-2001; 2001US-00798586.
 XX
 XX (MORRIS D W.
 XX (ENGE/ ENGELHARD E K.
 XX
 XX Morris DW, Engelhard EK;
 XX
 XX WPI; 2004-328562/30.
 XX
 XX New carcinoma associated gene or protein, useful for preparing a
 XX composition for diagnosing or treating carcinoma e.g., leukemia or
 XX lymphoma.
 XX
 XX Claim 1; SEQ ID NO 40; 29pp; English.
 XX
 XX The invention relates to new recombinant nucleic acids. The invention
 XX also relates to a host cell comprising a recombinant nucleic acid or
 XX expression vector, an expression vector comprising a recombinant nucleic
 XX acid, a recombinant protein, a method of screening for drug candidates, a
 XX method of screening for a bioactive agent capable of binding to a
 XX carcinoma associated protein (CAP) encoded by a nucleotide sequence, a
 XX method of screening for a bioactive agent capable of modulating the
 XX activity of a CAP, a method of evaluating the effect of a candidate
 XX carcinoma drug, a method of diagnosing carcinoma, a method for inhibiting
 XX the activity of a CAP, a method of treating carcinomas, a method of
 XX neutralizing the effect of a CAP and a method of diagnosing carcinoma or
 XX propensity to carcinoma. A method of evaluating the effect of a candidate
 XX carcinoma drug comprises administering the drug to a patient, removing a
 XX cell sample from the patient and determining alterations in the
 XX expression or activation of a gene comprising the nucleotide sequence. A
 XX method of diagnosing carcinoma comprises determining the expression of
 XX one or more genes comprising the nucleic acid sequence in a first tissue
 XX type of a first individual and comparing the expression of the gene from
 XX a second normal tissue type from the first individual or a second
 XX unaffected individual, where a difference in the expression indicates
 XX that the first individual has carcinoma. A method of inhibiting the
 XX activity of a CAP comprises binding an inhibitor to the CAP. Treating
 XX carcinomas comprises administering to a patient an inhibitor of CAP.
 XX Neutralizing the effect of a CAP comprises contacting an agent specific
 XX for the CAP. The polypeptide specifically binds to the protein encoded by
 XX the nucleic acid. It comprises an antibody that specifically binds to the
 XX protein encoded by the nucleic acid. The nucleic acids are useful for
 XX preparing a composition for diagnosing or treating carcinoma e.g.,
 XX leukemia or lymphoma. This sequence represents a human carcinoma
 XX associated (CA) nucleic acid of the invention. Note: The sequence data
 XX for this patent did not form part of the printed specification but was
 XX obtained in electronic format directly from USPTO at
 XX Seqdata.uspto.gov/sequence.html.
 XX
 XX Sequence 44075 BP; 8314 A; 11402 C; 11137 G; 8371 T; 0 U; 4851 Other;
 XX
 XX Query Match 37.2%; Score 148.6; DB 12; Length 44075;

Beat Local Similarity 74.9%; Pred. No. 7.7e-31;
 Matches 200; Conservative 1; Mismatches 60; Indels 6; Gaps 1;
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 DB 8665 GCTGTATATCCAGACTTGGGAGGCCAGGTGGCGGATCAGCTGAGTCAAGATC 8606
 QY 143 GAGACATCTGGCCAAATGTTGAAACCCGCTTTTCTTAAATAACAAAAATAGCTG 202
 DB 8605 AAGACCAATCTGGCCAAATGTTGAAACCCGCTTTTCTTAAATAACAAAAATAGCTG 8546
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 DB 8545 GGCAATGGTGACACACCTGTAGTCCAGCTACTCAGAGCTAGAGCAAGAAATCGCT 8486
 QY 263 AGATCGCAGAGTGAAGCCGAAATCAAGATC-----ACAGATGAGCAGAGTGAAGC 316
 DB 8485 TGAACCCAGAGAGGAGAGGTTGCAAGTGAAGTCACTCACTGGGCAACAGAGTGAAGTCT 8426
 QY 317 GTCTCAAAAACAAACAAACAAACAA 343
 DB 8425 GTCTCAAAAACAAACAAACAAACAA 8399
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 ID ACN45134 standard; DNA; 49745 BP.
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 XX 18-NOV-2004 (first entry)
 XX
 XX Human genomic sequence hCG31443.
 DE
 XX
 XX Cytosolic; carcinoma; lymphoma; cancer; human; gene; ss.
 XX
 XX Homo sapiens.
 OS
 XX W02003073826-A2.
 XX
 XX 12-SEP-2003.
 XX
 XX 28-FEB-2003; 2003WO-US006235.
 XX
 XX 01-MAR-2002; 2002US-00087192.
 XX
 XX (SAGRES DISCOVERY.
 XX
 XX Morris DW;
 XX
 XX WPI; 2003-328604/31.
 XX
 XX Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
 XX comprises a nucleotide sequence.
 XX
 XX Claim 1; SEQ ID NO 1930; 0pp; English.
 XX
 XX The present invention relates to novel DNA and protein sequences which
 XX are associated with carcinomas. The sequences are useful for: (i) for
 XX screening drug candidates; (ii) for screening of bioactive agent capable
 XX of binding to carcinoma associated protein (CAP); (iii) for screening of
 XX a bioactive agent capable of modulating the activity of CAP; (iv) for
 XX evaluating the effect of a candidate carcinoma drug; (v) for diagnosing
 XX carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating
 XX carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a bioclip;
 XX (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
 XX determining carcinoma associated (CA) gene copy number. In addition, the
 XX CA genes are useful as DNA vaccines and the CAP are useful as markers of
 XX carcinoma including lymphoma. The present sequence is one such CA coding
 XX sequence. Note: This patent is an equivalent to basic patent
 XX US2002182586A1, for which no sequence data was published
 XX
 XX Sequence 49745 BP; 10151 A; 14745 C; 14496 G; 10151 T; 0 U; 202 Other;

ADH76849;
 22-APR-2004 (first entry)
 Melanin-concentrating hormone receptor 1 locus clone.
 melanin-concentrating hormone receptor 1; MCHRI, SNP;
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 Homo sapiens.
 Synthetic.
 Key
 variation
 location/Qualifiers
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05-JUN-2003; 2003WO-BP005917.
 05-JUN-2002; 2002EP-00012569.
 (UYPH-) UNIV PHILIPPS MARBURG.
 Platzer M, Platzer C, Gudermann T, Hebebrand J, Hinney A;
 Reichwald K;
 WPI; 2004-062377/06.
 New diagnostic composition, useful for diagnosing obesity related to the presence of a molecular variant of the MCHRI gene or a susceptibility to the disorder.
 Claim 1; Page; 76pp; English.
 The invention relates to a novel diagnostic polymnucleotide composition. The polymnucleotide composition comprises: a sequence encoding a polypeptide with defined sequences given in the specification; a sequence capable of hybridizing to a melanin-concentrating hormone receptor 1 (MCHRI) gene; a polymnucleotide encoding an MCHRI polypeptide; or a sequence comprising one or more of the nucleotide exchanges (SNP's) given in the specification and at least 8 bases of surrounding sequence of the MCHRI gene. The composition has anorectic activity. The polymnucleotide composition may be used in gene therapy to treat the disorders of the invention. The composition is useful for diagnosing obesity related to the presence of a molecular variant of the MCHRI gene or a susceptibility to the disorder. The MCHRI protein or polymnucleotide is useful for preparing a medicament for treating or preventing obesity related to the presence of a molecular variant of the MCHRI gene. This polymnucleotide represents the melanin-concentrating hormone receptor 1 locus clone of the invention. This sequence is not shown in the specification. It has been taken from the Genbank accession number Z86090 provided in the specification.
 Sequence 122557 BP; 34723 A; 28259 C; 27523 G; 32052 T; 0 U; 0 Other;
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 144 AGACCATCTGGCCCAATGTTGAAACCCGCTTTTAATAAATACAAAAATAGCTGG 203
 68103 AGACCAAGCTGGCCCAATGTTGAAACCCGCTTTTAATAAATACAAAAATAGCCAG 68162
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 68163 GCATGTTGGCACACCTGTATCCCACTACTTGGAGGGGTGAGGCTGGAATGTGTT 68222
 264 GATCGACAGATGAGCGCCAAATCATCAGATCAGAGA--GTAGACAGATGAGACKCGTCTC 321
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 68283 AAAAAAAAAAAGAAAGAAAGAAA 68308
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 AC AAK79514;
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DT	07-NOV-2001	(first entry)
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DE	Human immune; haematopoietic; immune/haematopoietic antigen; cancer;	
KM	cytostatic; gene therapy; vaccine; metastasis; ds.	
XX	Homo sapiens.	
XX	MO200157182-A2.	
PD	09-AUG-2001.	
XX	17-JAN-2001; 2001MO-US001354.	
XX	31-JAN-2000; 2000US-0179065P.	
PR	04-FEB-2000; 2000US-0180628P.	
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PR	02-MAR-2000; 2000US-0186350P.	
PR	16-MAR-2000; 2000US-0189874P.	
PR	17-MAR-2000; 2000US-0190076P.	
PR	18-APR-2000; 2000US-0198123P.	
PR	19-MAY-2000; 2000US-0205515P.	
PR	07-JUN-2000; 2000US-0209467P.	
PR	28-JUN-2000; 2000US-0214886P.	
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PR	05-DEC-2000; 2000US-0251988P.	
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PR	06-DEC-2000; 2000US-0251479P.	
PR	08-DEC-2000; 2000US-0251856P.	
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PR 08-DEC-2000; 2000US-0251863P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-02559678P.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Rosen CA, Barash SC, Ruben SM;

XX WPI; 2001-483426/52.

XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides.
XX useful for preventing, diagnosing and/or treating cancers and metastasis.

XX Disclosure; SEQ ID NO 34326; 3071pp + Sequence Listing; English.

XX AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytosolic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patient's own production of (I). Additionally, (I) may be
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/hematopoietic-related diseases, especially
CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703
CC to AAK87694 represent human immune/hematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC represent sequences used in the exemplification of the present invention
XX

XX Sequence 9469 BP; 2940 A; 2203 C; 1941 G; 2385 T; 0 U; 0 Other;

XX Query March 37.0%; Score 148; DB 4; Length 9469;

XX Best Local Similarity 74.2%; Pred. No. 7,1e-31;

XX Matches 187; Conservative 0; Mismatches 65; Indels 0; Gaps 0;

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DB 1141 TATGACGGAATAATGTCGCGCAGGAGAGTGCTCATGCTGTATATCCAGCACTTCGGG 1200

XX 106 AGGCCAAGTGGGCGGATCACCCTGAGATCAAGATCGAGACCATCTGGCCAAACATGCT 165

DB 1201 AGGCCAAGTGGGAGATCACCCTGAGATCAAGATCGAGACCATCTGGCCAAACATGCT 1260

XX 166 GAAACCCCGCTTTTACTTAAATAATACAAAAATAGCTGGGCATGTGGCAACACCTGTAG 225

DB 1261 GAAACCCCGCTTTTACTTAAATAATACAAAAATAGCTGGGCATGTGGGCACGCGCTGTAA 1320

XX 226 TCCAGACTACTCAGGAGCGGAGATTGACATGAGATCGACAGTGAAGCCGAATC 285

DB 1321 TCCAGACTACTCAGGAGCGGAGATTGACATGAGATCGACAGTGAAGCCGAATC 1380

XX 286 ACAAGTACAGA 297

DB 1381 AGTGAGCCAGA 1392

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GenCore version 5.1.9
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OW nucleic - nucleic search, using sw model

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Total number of hits satisfying chosen parameters: 96473596

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Maximum Match 100%

Listing first 150 summaries

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14: gb_g884:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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3	151.4	37.9	617	5	CK330465
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5	151	37.8	357	1	AA405549
6	151	37.8	401	7	BE149224
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9	148.6	37.2	542	13	DB13291
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27	146.6	36.7	490	1	AI434037
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29	146.4	36.6	406	7	AM902341
30	146.4	36.6	524	1	AI302156
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33	146.2	36.6	419	3	BM712012
34	146.2	36.6	680	8	CN351916
35	146.2	36.6	685	7	BE379282
36	146.2	36.6	803	1	AA836548
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87	144.6	36.2	578	9	DB170922
88	144.6	36.2	578	9	DA296828
89	144.6	36.2	579	9	DA350880
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91	144.6	36.2	586	9	DA253883
92	144.6	36.2	1036	2	BM542055

93	144.4	36.1	301	3	BU957990	BU957990 AGENCOURT
94	144.4	36.1	399	10	DM429644	DM429644 HHAGE0023
95	144.4	36.1	505	9	DB278032	DB278032 DB278032
96	144.4	36.1	735	9	DN994393	DN994393 TC111938
97	144.4	36.1	1004	14	DUT99349	DUT99349 f.v01 fp00
98	144.4	36.1	1052	3	BM560673	BM560673 AGENCOURT
99	144.2	36.1	500	14	AG028900	AG028900 Homo sapi
100	144.2	36.1	552	9	DB360773	DB360773 DB360773
101	144.2	36.1	692	14	AG146558	AG146558 Pan trogl
102	144.2	36.1	938	3	BM527958	BM527958 AGENCOURT
103	144	36.0	373	3	AA654778	AA654778 nt73901.s
104	144	36.0	716	13	C2455149	C2455149 MCF737J03
105	144	36.0	895	2	BM452899	BM452899 AGENCOURT
106	143.8	36.0	647	14	AG048965	AG048965 Pan trogl
107	143.8	36.0	753	8	CO247422	CO247422 AGENCOURT
108	143.6	35.9	324	10	DM412367	DM412367 HHAGE0130
109	143.6	35.9	511	9	DA873295	DA873295 DA873295
110	143.6	35.9	612	1	AA133332	AA133332 zn29e02.s
111	143.6	35.9	644	3	BO183419	BO183419 UT-H-EU0-
112	143.6	35.9	662	4	AG037584	AG037584 Pan trogl
113	143.6	35.9	673	3	BU736980	BU736980 UT-H-DW0-
114	143.6	35.9	673	11	AG0351427	AG0351427 RPCI11-11
115	143.6	35.9	694	14	AG143386	AG143386 Pan trogl
116	143.6	35.9	990	12	B2601193	B2601193 MHRDA88TR
117	143.6	35.9	1035	2	BM543345	BM543345 AGENCOURT
118	143.4	35.9	345	7	AM804959	AM804959 OVA-UM09
119	143.4	35.9	485	4	CA419549	CA419549 UT-H-FH0-
120	143.4	35.9	693	14	AG179363	AG179363 Pan trogl
121	143.4	35.9	718	8	CR789371	CR789371 DKF2p4597
122	143.4	35.9	831	2	BT758533	BT758533 603022857
123	143.2	35.8	405	11	B64328	B64328 CIT-HSP-202
124	143.2	35.8	535	4	EX951790	EX951790 DKF2p781L
125	143.2	35.8	613	7	AW411283	AW411283 fh1d07.y
126	143.2	35.8	897	14	DUT967745	DUT967745 f.v01 fp00
127	143.2	35.8	939	11	BH770745	BH770745 LLMGt8g49
128	143	35.8	289	11	B85944	B85944 RPCI11-2111
129	143	35.8	302	10	DM419716	DM419716 HHAGE0194
130	143	35.8	368	1	AA642809	AA642809 nu05a06.s
131	143	35.8	445	1	AA608602	AA608602 ae54f08.s
132	143	35.8	453	11	AQ020765	AQ020765 CIT-HSP-2
133	143	35.8	519	11	AQ380981	AQ380981 RPCI11-16
134	143	35.8	508	4	BY795043	BY795043 BY795043
135	143	35.8	562	9	DA343610	DA343610 DA343610
136	143	35.8	581	9	DA304206	DA304206 DA304206
137	143	35.8	592	11	AQ318945	AQ318945 RPCI11-10
138	142.8	35.7	451	10	N27615	N27615 yw50a03.s1
139	142.8	35.7	589	9	DA128762	DA128762 DA128762
140	142.8	35.7	610	4	CA442144	CA442144 UI-H-DI0-
141	142.6	35.7	1945	6	BC035612	BC035612 Homo sapi
142	142.4	35.6	374	11	AQ021361	AQ021361 CIT-HSP-2
143	142.4	35.6	496	9	DB276584	DB276584 DB276584
144	142.4	35.6	585	3	BQ082129	BQ082129 K-EST0060
145	142.2	35.6	442	1	AA064978	AA064978 zf75f10.x
146	142.2	35.6	450	11	AQ319210	AQ319210 RPCI11-98
147	142.2	35.6	575	7	AV733228	AV733228 AV733228
148	142.2	35.6	761	9	DA834202	DA834202 DA834202
149	142	35.5	279	1	AT081241	AT081241 cy67b01.x
150	142	35.5	360	1	AF236698	AF236698 AF236698

ALIGNMENTS

RESULT 1
LOCUS AQA16484 598 bp DNA linear GSS 23-MAR-1999
DEFINITION RPCI-11-153H2.TJ RPCI-11 Homo sapiens genomic clone RPCI-11-153H2,
ACCESSION AQA16484 genomic survey sequence.
VERSION AQA16484.1 GI:4470608
KEYWORDS GSS.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

Qy	84	CGGTATTCGAGACTTGGGAGGCGCAAGTGGGCGGATCCTGAGTGAAGATCG	143
Db	150	CGTTAATCCAGCACTTGGAGGCGCAAGTGGGCGGATCCTGAGTGAAGATCG	209
Qy	144	AGACATCTCGGCCAATGCTGTAACCCCGCTTTAATAAATAACAAAAATAGCTGG	203
Db	210	ATACACAGCTGGCCAACTGTAAGCTGTCTCTAATAAATAACAAAAATAGCTGG	269
Qy	204	GCATGTGGCACACACTGTATGCTCCAGCTACTAGAGAGCGGAGATTGCGTGAAGTGA	263
Db	270	GCGTGTGGTGGACAGCTATATCCAGCTACTGCGGAGGCGAGGTTGCGTGAAGTGA	329
Qy	264	GATGCGAGTGAAGCCGAATACAGATCAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA	323
Db	330	GATTG-----TGCATTGCAAGCTAGCTGGGCAAGAGTGAAGTGAAGTGAAGTGA	381
Qy	324	AAACACACAAAAAACAATAAATAGATTTG	360
Db	382	AAATTAATTAATAAATAATATACCAAGATCAAGTG	418

Query Match 38.3%; Score 153; DB 11; Length 598;
Best Local Similarity 74.7%; Pred. No. 1.9e-19;
Matches 207; Conservative 1; Mismatches 61; Indels 8; Gaps 1;

ORIGIN

Query Match 38.3%; Score 153; DB 11; Length 598;
Best Local Similarity 74.7%; Pred. No. 1.9e-19;
Matches 207; Conservative 1; Mismatches 61; Indels 8; Gaps 1;

FEATURES

Source

Location/Qualifiers

1..598

/organism="Homo sapiens"

/mol_type="genomic DNA"

/db_xref="GDB:7558537"

/db_xref="taxon:9606"

/clone="RPCI-11-153H2"

/sex="male"

/cell_type="lymphocytes"

/clone_id="RPCI-11"

/note="Vector: pBAC3.6; Site 1: EcoRI; Site 2: EcoRI; RPCI11 Human Male BAC library"

Journal

Comment

REFERENCE

AUTHORS

Zhao, S., Adams, M.D., Nierman, W., Malek, J., de Jong, P., and Venter, J.C.

Use of BAC End Sequences from Library RPCI-11 for Sequence-Ready Map Building

Unpublished (1997)

Other GSSs: RPCI11-153H2.TJ

Contact: Shaying Zhao, William Nierman, Mark Adams

Department of Eukaryotic Genomics

The Institute for Genomic Research

9712 Medical Center Dr., Rockville, MD 20850

Tel: 301 838 0200

Fax: 301 838 0208

Email: hbe@igir.org

Clones are derived from the human BAC library RPCI-11. For BAC library availability, please contact Pieter de Jong (pieterdejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (http://bacpac.med.buffalo.edu/ordering) or from Research Genet cs (info@resgen.com). BAC end search page: http://www.igir.org/tldb/humgen/bac_end_search/bac_end_search.html.

Seq primer: SP6

Class: BAC ends.

SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.
 REFERENCE 1 (bases 1 to 457)
 Osoegawa, K., Mammoser, A.G., Wu, C., Frengen, E., Zeng, C.,
 Caranese, J.J., and de Jong, P.J.
 A bacterial artificial chromosome library for sequencing the
 complete human genome
 Genome Res. 11 (3), 483-496 (2001)
 JOURNAL PUBMED 11230172
 COMMENT Contact: de Jong, P.J.
 Children's Hospital Oakland Research Institute
 747 Fifty second Street, Oakland, CA 94609-1809, USA
 Tel: 510 450 7911
 Fax: 510 450 7924
 Email: pdejong@mail.cho.org
 BAC end sequences. For clone availability please contact Pieter de
 Jong (pdejong@mail.cho.org). BACPAC Resources WWW site:
 www.choi.org/bacpac
 Seq primer: 17
 Class: BAC ends.
 FEATURES
 source 1..457
 location/Qualifiers
 /organism="Homo sapiens"
 /mol_type="genomic DNA"
 /db_xref="taxon:9606"
 /clone="RPC1-11-Seg1-4-200N9-17"
 /sex="Male"
 /cell_type="Lymphocyte"
 /clone_lib="RPC1-11 Human segment 1-4 genomic library"
 /note="Vector: pBAC3.6; BAC clones in E. coli DH10B"
 ORIGIN
 Query Match 37.9%; Score 151.4; DB 11; Length 457;
 Best Local Similarity 75.8%; Pred. No. 4e-19;
 Matches 213; Conservative 1; Mismatches 56; Indels 11; Gaps 2;
 Oy 81 ATGCTGTAAATCCAGCACTTCGGAGGCGCAAGTGGCGGATCACTGAGTCAAGA 140
 Db 47 ATGCTGTAAATCCAGCACTTCGGAGGCGCGAGTGGCGAGATCACTGAGGTCAAGA 106
 Oy 141 TGGAGACCATCTGGCGCAACATGTTGAACCCCGCTTACTTAAATACAAATAATGC 200
 Db 107 TGGAGACATCTGGCGCAACATGTTGAACCCCGCTTACTTAAATACAAATAATGC 166
 Oy 201 TGGGATGTTGGGACACACTGTAGTCCAGCTACTCAGAA-----GCCGAGATTGC 253
 Db 167 TGGGATGTTGGTATGATCTGTAGTCCAGCTACTCAGGAGGCTGAGGCAAGAGTTG 226
 Oy 254 AGTAGAGTAGATGCGAGAGTGAAGCCGAATCAAGAT---CACAGAGTGCAGAGTG 309
 Db 227 CTGGAAGCTGAGAGGCAAGAGGTGCAAGTGAACCAAGATATCTCCAGCTAGTGAAGACAGCG 286
 Oy 310 AGACCCCTCTCAAAAACAACAACAAAAAACAACCA 350
 Db 287 AGACTCCGTCTCAAAAANANNAANNAANNAACACCTA 327

REFERENCE 1 (bases 1 to 617)
 Ozyildirim, A.M., Wistow, G.J., Gao, J., Wang, J., Dickinson, D.P.,
 Priereson, H.F., Jr and Laurie, G.W.
 The lacrimal gland transcriptome is an unusually rich source of
 rare and poorly characterized gene transcripts
 Invest. Ophthalmol. Vis. Sci. 46 (5), 1572-1580 (2005)
 JOURNAL PUBMED 15851553
 COMMENT Contact: Wistow G
 Section on Molecular Structure and Function
 National Eye Institute
 6/331, NIH, Bethesda, MD 20892-2740, USA
 Tel: 301 402 3452
 Fax: 301 496 0078
 Email: gwen@helix.nih.gov
 Plate: 49 row: 9 column: 05
 Seq primer: M13RP1 reverse primer (ABI).
 FEATURES
 source 1..617
 location/Qualifiers
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="OJ49905"
 /tissue_type="lacrimal gland"
 /dev_stage="Adult"
 /lab_host="EMD10B"
 /clone_lib="Human lacrimal gland, unamplified: OJ"
 /note="Organ: Eye; Vector: pCMVSPORT6; RNA was extracted
 from 2 human lacrimal glands. A directionally cloned cDNA
 library in the pCMVSPORT6 vector (Life Technologies) was
 constructed at Bioserve Biotechnology (Laurel MD)
 essentially following the protocols of the SuperScript
 Plasmid System full details of which are contained in the
 manufacturer's instruction manual
 (http://www.lifetech.com/). First strand synthesis was
 carried out using a Not I primer-adaptor
 (5'-pGACTAGTCTAGTGGCGGCGCGCCGCTT)15-3'. EST analysis
 was performed on the unamplified library at the NIH
 Intramural Sequencing Center (NISC)."
 ORIGIN
 Query Match 37.9%; Score 151.4; DB 5; Length 617;
 Best Local Similarity 76.4%; Pred. No. 3.7e-19;
 Matches 201; Conservative 1; Mismatches 52; Indels 9; Gaps 1;
 Oy 81 ATGCTGTAAATCCAGCACTTCGGAGGCGCAAGTGGCGGATCACTGAGTCAAGA 140
 Db 89 AGCCTGTAAATCCAGCACTTCGGAGGCGCAAGTGGCGGATCACTGAGTCAAGA 148
 Oy 141 TGGAGACCATCTGGCGCAACATGTTGAACCCCGCTTACTTAAATACAAATAATGC 200
 Db 149 TGGAGACCATCTGGCGCAACATGTTGAACCCCGCTTACTTAAATACAAATAATGC 208
 Oy 201 TGGGATGTTGGGACACACTGTAGTCCAGCTACTCAGAGCGGAGATTGAGTAGAG 260
 Db 209 CAGGCAATGTGGGACATGCTTAAATCTAGCTACTCAGAGGCGAGGCTGCAATAGC 268
 Oy 261 TGAAGTGCAGAGTGAAGCCGAATCAAGATCAAGAGTGAAGAGTGAAGACCCGCTCT 320
 Db 269 CAAGATCATGTGCAATCTCCAGCTCAGCTAGGTGA-----CAGAGTGAAGATCTGTCT 319
 Oy 321 CAATAACAACAACAAACAA 343
 Db 320 CAATAAAAAAAAAAAAAAAAA 342

RESULT 4
 LOCUS BUS68469 801 bp mRNA linear EST 16-SEP-2002
 DEFINITION AGENTCOURT_10405312 NIH_MGC_82 Homo sapiens cDNA clone IMAGE:661547
 ACCESSION BUS68469
 VERSION BUS68469.1 GI:22918758
 KEYWORDS EST.

SOURCE
ORGANISM Homo sapiens (human)

REFERENCE
AUTHORS NIH-MGC
TITLE NIH-MGC
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgaabs-remail.nih.gov
Tissue Procurement: CLONTECH
CDNA Library Preparation: CLONTECH Laboratories, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNLN at:
http://image.llnl.gov
Plate: LICM2857 row: m column: 19
High quality sequence stop: 553.
Location/Qualifiers

FEATURES
source
1..801
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6615547"
/lab_host="DH10B (TI phage-resistant)"
/clone_1ib="NIH MGC_82"
/note="Organ: testis; Vector: pDNR-LIB (Clontech); Site 1: SfiI (ggcgccctggcc); Site 2: SfiI (ggcgccctggcc); 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-ATCTAGAGCGCGCGCGCGCATG-dT(30)BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.35 kb (range 0.9-4.0 kb). 14/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA)."

ORIGIN
Query Match 37.8%; Score 151.2; DB 3; Length 801;
Best Local Similarity 74.6%; Pred. No. 3.9e-19;
Matches 206; Conservative 1; Mismatches 59; Indels 10; Gaps 1;

84 CCTGTAATCCAGCACTTGGGAGGCCCAAGTGGCGGATCACTGAGTCAAGATCG 143
17 CCTGTAATCCAGCACTTGGGAGGCCCAAGTGGCGGATCACTGAGTCAAGATCG 76
144 AGACCATCTGGCCCAAGTGGGAGGCCCAAGTGGCGGATCACTGAGTCAAGATCG 203
77 AGACCATCTGGCCCAAGTGGGAGGCCCAAGTGGCGGATCACTGAGTCAAGATCG 136
204 GCATGATGGGCAACACTGTAGTCCAGTACTCAGAGCCGAGATTCAGTGAAGTGA 263
137 GCATGATGGGCAACACTGTATCCAGTACTCAGAGGAGGAGGCTGAGTGAAGTGA 196
264 GATGCGAGAGTGAAGCCGAATCAAGATCAAGAGTGAAGAGTGAAGTGAAGTGA 323
197 GCTGCCA-----CCATGCACTCCAGGCTGGGAGAGGAGAGCTTATCTCAA 246
324 AAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACA 359
247 AAAAAATAAAAAAAGTAAATAAATAAATAAATAAATAAATAAATAAATAA 282

RESULT 5
AA405549/c 357 bp mRNA linear EST 17-MAY-1997
LOCUS AA405549
DEFINITION zw3f03.c1 Soares total fetus Nb2HF8_9w Homo sapiens CDNA clone
IMAGE:772445 5' similar to contains 1lu repetitive element; mRNA
sequence.
AA405549
VERSION AA405549.1 GI:2063141

KEYWORDS
SOURCE EST.
ORGANISM Homo sapiens (human)

REFERENCE
AUTHORS Hillier, L., Allen, M., Bowles, L., Dubugue, T., Geisel, G., Jost, S., Kucaba, T., Jacq, M., Le, N., Lennon, G., Marra, M., Martin, J., Moore, B., Schellendberg, K., Scepore, M., Tan, F., Theising, B., White, Y., Wyllie, T., Waterston, R., and Wilson, R.
JOURNAL WashU-Merck EST Project 1997
COMMENT Unpublished (1997)
Contact: Wilison RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
This clone is available royalty-free through LNLN; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
Seq primer: -28ml3 rev2 ET from Amersham
High quality sequence stop: 322.
Location/Qualifiers

FEATURES
source
1..357
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:772445"
/dev_stage="8-9 weeks"
/lab_host="DH10B"
/clone_1ib="Soares total fetus Nb2HF8_9w"
/note="Vector: pT7T3D-PacII; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was prepared from mRNA obtained from pooled 8-9 week (local) fetus material with a Not I - oligo(dT) primer (5' TGTTACCAATCTGAAGTGGAGCGCGCGCTTAATTTTTTTTTTTTTT 3'). Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Fatima Bonaldo."

ORIGIN
Query Match 37.8%; Score 151; DB 1; Length 357;
Best Local Similarity 77.0%; Pred. No. 5e-19;
Matches 184; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

32 AACCAATATTAAATTAAGACATTTGACGCGCAGCATGACACTGGCTGATGCTGTAT 91
287 AATCGGAGATTAAGAAATTGAGCATGAATTGGCTGGGACCGGTCTGACGCTGTAT 228
92 CCAGCACTTGGGAGGCCAAGTGGGCGGATCACTGAGTCAAGAGATGAAGATCA 151
227 CTCAGCACTTGGGAGGCCAAGTGGGCGGATCACTGAGTCAAGAGATGAAGATCA 168
152 CTGGCCCAACATGTTGAACCCCGCTTTTAACTTAAATAAATAAATAAATGCTGGGATG 211
167 CTGGCCCAACATGTTGAACCCCGCTTTTAACTTAAATAAATAAATAAATGCTGGGATG 108
212 GCACACACTGTAAGTCCAGCTACTCAGAGACCGGAGATTGCAAGTGAAGTGAAGTGA 270
107 GCATGCACTGTATCCCGGCTACTCGGAGAGGCTGAGGTTCAAGTGAAGTGAAGTGA 49

RESULT 6
BE149224 401 bp mRNA linear EST 21-JUN-2000
LOCUS BE149224
DEFINITION RC2-ht0252-120200-014-c06 ht0252 Homo sapiens CDNA, mRNA sequence.
ACCESSION BE149224
VERSION BE149224.1 GI:8611948
KEYWORDS EST.
SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominae; Homo.
1 (bases 1 to 401)
Dias Neto, E., Garcia Correa, R., Verjowski-Almeida, S., Briones, M.R.,
Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F.,
Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H.,
Brunstein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V.,
O'Hare, M.U., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
Simpson, A.J.
Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
10737800
Contact: Simpson A.U.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the PAPER/PICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?cl=RC2-HT0252-120
200-014-c06&t3=2000-02-12&t4=1)
Seq primer: puc 18 forward
High quality sequence start: 16
High quality sequence stop: 401.
Location/Qualifiers
1..401
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_1lb="HT0252"
/note="Organ: head_neck; Vector: puc18; Site_1: Smal;
Site_2: Sma1; A mini-library was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the puc 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
low stringency conditions."
ORIGIN
Query Match 37.8%; Score 151; DB 7; Length 401;
Best Local Similarity 78.3%; Pred. No. 4.9e-19;
Matches 206; Conservative 0; Mismatches 55; Indels 2; Gaps 2;
OY 84 CCTGTAATCCAGCACTTCGGAGGCCAAGTGGCGGATCACTGAGGTCAAGATCG 143
DB 42 CCTGTAATCCAGCACTTCGGAGGCCAAGTGGCGGATCACTGAGGTCAAGATCG 101
OY 144 AGACCATCTGGCCCAACATG-GTGAATCCCGCTCTTTACTAAATAACAAAAATAGCTG 202
DB 102 AGACCAAGCTGGCCCAACATGTTGTAATACCCCGCTCTCTCTAAATAACAAAAATAGCA 161
OY 203 GGCATGTTGGACACACCTGTAGTCCAGCTACTCAGAGGCGGAGATTGACAGTGC 262
DB 162 GGCATGTTGGACACCTGTAGTCCAGCTACTCAGAGGCGGAGATTGACAGTGC 221
OY 263 AGATGCGAGAGTGAAGCCGAAATCAGAGTCAAGAGTGAAGTGAAGTGAAGTCA 322
DB 222 AGATGCGACTACTGACACTGACATCCAGCTGGGTGA-CAGACAGAGACCTGTCTCA 280
OY 323 AAAACAACAACAAAAA 345
DB 281 AAAACAACAACAAAAA 303
RESULT 7
CN272188

LOCUS CN272188 513 bp mRNA linear EST 16-MAY-2004
DEFINITION 17000600002901 GRN_PREHEP Homo sapiens cDNA 5', mRNA sequence.
ACCESSION CN272188
VERSION CN272188.1 GI:47288602
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominae; Homo.
1 (bases 1 to 513)
Brandenberger, R., Wei, H., Zhang, S., Lei, S., Murage, J., Fisk, G.J.,
Li, Y., Xu, C., Fang, R., Guejler, K., Rao, M.S., Mandalam, R.,
Lebkowski, J. and Stanton, L.W.
Transcriptome characterization elucidates signaling networks that
control human ES cell growth and differentiation
Nat. Biotechnol. 22 (6), 707-716 (2004)
15146197
Contact: Brandenberger R
Regenerative Medicine
Geron Corporation
230 Constitution Drive, Menlo Park, CA 94025, USA
Tel: 650 473 8658
Fax: 650 473 7760
Email: rbrandenberger@geron.com
Insert Length: 513 Std Error: 0.00.
Location/Qualifiers
1..513
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/issue_type="embryonic stem cells, DMSO-treated H9 cell
line"
/clone_1lb="GRN PREHEP"
/note="Oligo dt primed, full-length enriched cDNA library
from DMSO-treated h9s cell line H9 (p22) maintained in
feeder-free conditions"
ORIGIN
Query Match 37.4%; Score 149.6; DB 8; Length 513;
Best Local Similarity 71.4%; Pred. No. 8.6e-19;
Matches 197; Conservative 0; Mismatches 79; Indels 0; Gaps 0;
OY 81 ATGCTGTAATCCAGCACTTCGGAGGCCAAGTGGCGGATCACTGAGGTCAAGAGA 140
DB 51 ATGCTGTAATCCAGCACTTCGGAGGCCAAGTGGCGGATCACTGAGGTCAAGAGA 110
OY 141 TCGAGACCATCTGGCCCAACATGTGTAATACCCCGCTTACTTAAATAACAAAAATAGC 200
DB 111 TTGAGACCAAGCTGGCCCAACATGTGTAATACCCCGCTTACTTAAATAACAAAAATAGC 170
OY 201 TGGGATGTTGGACACACCTGTAGTCCAGCTACTCAGAGCGGAGATTGACAGTGC 260
DB 171 TGGGATGTTGGACAGTGCCTGTAGTCCAGCTACTCAGAGCGGAGATTGACAGTGC 230
OY 261 TGAATGCGAGAGTGAAGCCGAAATCAGATCAAGAGTGAAGTGAAGTGAAGTCA 320
DB 221 TGAGGTGTTGCACTGCACTCCAGCTTGGTGAAGAGTGAAGTGAAGTCTCTCAAAAAA 290
OY 321 CAAAAACAACAACAAAAA 356
DB 291 AAAAAACAACAACAAAAA 326
RESULT 8
CN2455807 613 bp DNA linear GSS 20-OCT-2005
LOCUS MCF73H04TF Human MCF7 breast Cancer cell line library (MCF7_1)
DEFINITION Homo sapiens genomic clone MCF7_38_H04, genomic survey sequence.
ACCESSION CN2455807
VERSION CN2455807.1 GI:77932102
KEYWORDS GSS.
SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

REFERENCE 1 (bases 1 to 613)
Volik S.V., Raphael B.J., Huang G.-Q., Murnane J., Brebner J.H.,
Bajarcowicz K., Paris P., Tao Q., Kowbel D., Lapuk A.V., Kuo W.-L.,
Shagin D.A., Shagina I.A., Magrane G., Gray J.W., Jan F.-C., de
Jong P., Pezner P. and Collins C.
Decoding the genomic architecture and high throughput detection of
fusion transcripts in breast cancer cell lines: implications for a
tumor genome project
Unpublished (2005)

JOURNAL Contact: Volik SV
Colin Collins' lab
UCSF Comprehensive Cancer Center
UCSF Box 0808, San Francisco, CA 94143-0808, USA
Tel: 415 502 7066
Fax: 415 502 5665
Email: svolik@cc.ucsf.edu
This clone is available from Amplicon Express
http://www.genomex.com

COMMENT Class: BAC ends.

FEATURES
source 1..613
location/Qualifiers
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/clone="MCF7_38_H04"
/sex="female"
/clone_id="Human MCF7 breast cancer cell line library
(MCF7_1)"
/note="Vector: pBCBAC1; Site_1: HindIII; This library was
constructed from MCF7 breast cancer cell line by Amplicon
Express (http://www.genomex.com) using their standard
procedure."

ORIGIN

Query Match 37.4%; Score 149.6; DB 13; Length 613;
Best Local Similarity 75.6%; Pred. No. 8.3e-19;
Matches 201; Conservative 1; Mismatches 55; Indels 9; Gaps 1;

OY 81 ATGGCTGTAATCCCGACGACTTCGGAGGCGCAAGGTGGGGGATGTCAGGTCAAGGA 140
DB 87 ACGCTGTAATCTTAGCACTTGGAGGCGCAAGGTGGATGCTTAGGTGAGGTGAGGT 146
OY 141 TCGAGACCATCTGGCCAAATGATGTAACCCCGTCTTTACTAAATAACAAAAATAGC 200
DB 147 TCGAGACCATCTAGTCAATGTAACCCCGTCTTACTAAATAACAAAAATAGT 206
OY 201 TGGGATGATGGGACACACCTGTAGTCCAGCTACTCAGAGCCGGAATTTGAGTAC 260
DB 207 TGGACATCTGGCAGACCGCTGTAGTCCAGCTCCCTGGAGGTGACCTTGCAATGAGC 266
OY 261 TGAGATGCGCAGAGTGAAGCGAAATACAGATCAGAGATGAGAGGAGACCCGCT 320
DB 267 CGAGATCAGCGCACTGCACTCCAGCTGGGTGA-----CAGAGTGAAGCTCTGCT 317
OY 321 CAAAAACAACAACAAAAACAACAAAA 346
DB 318 CAAAAAAGAAAAAAGAAAAAAGAAAA 343

RESULT 9
LOCUS DB313291 542 bp mRNA linear EST 04-DEC-2005
DEFINITION DB313291 CTONG2 Homo sapiens cDNA clone CTONG2000516 3', mRNA
ACCESSION DB313291
VERSION DB313291.1 GI:83195301
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 542)
Kimura K., Wakamatsu A., Suzuki Y., Ota T., Nishikawa T.,
Yamashita R., Yamamoto J., Sekine M., Tsuritani K., Wakaguri H.,
Ishii S., Sugiyama T., Saito K., Isono Y., Irie R., Kushiida N.,
Yoneyama T., Otsuka R., Kanda K., Yokoi T., Kondo H., Wagatsuna M.,
Murakawa K., Ishida S., Ishibashi T., Takahashi Fujii A.,
Tanase T., Nagai K., Kikuchi H., Nakai K., Isogai T. and Sugano S.
Diversification of Transcriptional Modulation: Large-scale
Identification and Characterization of Putative Alternative
Promoters of Human Genes
Genome Res. 16 (1), 55-65 (2006)

JOURNAL Genome Res. 16 (1), 55-65 (2006)
PUBMED 16344560

COMMENT Contact: Takao Isogai
FLJ Project (HRI Team)
Helix Research Institute
2-6-7 Kazusa-Kamatari, Kisarazu, Chiba, 292-0818, Japan
Tel: 81-438-52-3975
Fax: 81-438-52-3986
Email: flj-cdna@nifty.com
NEBO human cDNA project (New Energy and Industrial Technology
Developmental Organization, Japan); cDNA library construction:
Helix Research Institute (HRI); 5'-end one pass sequencing: HRI,
Research Association for Biotechnology (RAB) and Biotechnology
Center, National Institute of Technology and Evaluation; 3'-end one
pass sequencing: RAB.

FEATURES
source 1..542
location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CTONG2000516"
/tissue_type="tongue, tumor tissue"
/clone_id="CTONG2"
/note="Vector: pME18SFLJ3"

ORIGIN

Query Match 37.2%; Score 148.6; DB 9; Length 542;
Best Local Similarity 79.5%; Pred. No. 1.3e-18;
Matches 175; Conservative 0; Mismatches 45; Indels 0; Gaps 0;

OY 83 GCTGTATATCCACACCTTGGGAGGCGCAAGGTGGGGATGACCTGAGGTCAAGATC 142
DB 506 GCTGTATATCCACACCTTGGAGGCGCAAGGTGGGATGACCTGAGGTCAAGATC 447
OY 143 GAGACCATCTGGCCAAATGATGTAACCCCGTCTTTACTAAATAACAAAAATAGCTG 202
DB 446 AAGACACGCTGGGCAACATGTAACCCCGTCTTACTAAATAACAAAAATAGCTG 387
OY 203 GGCATGTTGGGACACACCTGTAGTCCAGCTACTCAGAGCCGGAATTTGAGTAC 262
DB 386 GGCCTGTGGGACACATGCTGTAGTCCAGCTATTGGAGGCTGAGGCTGAGTACGCG 327
OY 263 AGATGCGCAGATGAGCCGAATACAGATCAGAGTGAAG 302
DB 326 AGATTGCGCCACTGCACTCCAGCTGGGCGCACAGATGAG 287

RESULT 10
LOCUS A0541320 614 bp DNA linear GSS 19-MAY-1999
DEFINITION RPCI-11-343C15-TV RPCI-11 Homo sapiens genomic clone
RPCI-11-343C15, genomic survey sequence.
ACCESSION A0541320
VERSION A0541320.1 GI:4871776
KEYWORDS GSS.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

REFERENCE 1 Hominidae; Pan.
 AUTHORS Fujiyama, A., Hattori, M., Toyoda, A., Taylor, T.D., Yada, T.,
 TITLE Toki, Y., Watanabe, H. and Sakaki, Y.
 JOURNAL BAC end sequences of Library RPCI-43
 COMMENT Unpublished
 REFERENCE 2 (bases 1 to 691)
 AUTHORS Fujiyama, A., Hattori, M., Toyoda, A., Taylor, T.D., Yada, T.,
 TITLE Toki, Y., Watanabe, H. and Sakaki, Y.
 JOURNAL Direct Submission
 Submitted (02-AUG-2001) Asao Fujiyama, The Institute of Physical
 and Chemical Research (RIKEN), Genomic Sciences Center (GSC),
 1-7-22 Suenho-cho, Tsunmi-ku, Yokohama, Kanagawa 230-0045, Japan
 (E-mail: chimpansecgsc.riken.go.jp, URL: http://nsp.gsc.riken.go.jp/,
 Tel: 81-45-503-9111, Fax: 81-45-503-9170)
 Clones are derived from the chimpanzee BAC library RPCI-43 This BAC
 end was generated during the R&D process and may have higher chance
 of clone tracking errors.
 PRIMERS
 Sequencing: T7
 LIBRARY
 Vector : pBACE3.6
 R.Site 1 : EcoRI
 R.Site 2 : EcoRI.
 FEATURES
 source
 location/Qualifiers
 1..691
 /organism="Pan troglodytes"
 /mol_type="genomic DNA"
 /db_xref="taxon:9598"
 /clone="RP43-039104.TU"
 /sex="male"
 /cell_type="lymphocytes"
 /clone_id="RPCI-43 Chimpanzee Male BAC Library"
 ORIGIN
 Query Match 37.0%; Score 148; DB 14; Length 691;
 Best Local Similarity 71.1%; Pred. No. 1.7e-18;
 Matches 212; Conservative 1; Mismatches 76; Indels 9; Gaps 1;
 Oy 45 ATAAAGACATGTGTCAGGCGGAGGATGACATGCTGTAATGCTGTAATCCGACCACTTGG 104
 Db 405 ATAAAGATTTTAAATGAGGAGGATGTGTGGGTGACACCTGATCCAGCACTTGG 346
 Oy 105 GAGGCGAAGGTGGGGGATCAGCTTGAAGATGAGAGATTCCTGGCCAAATGG 164
 Db 345 GAGGTGAGACTGTGGATCGCTTGAGCTCAGGAGATTGAGATCAGCCTAGGCAACATGG 286
 Oy 165 TGAAGACCCGCTTACTTAAATAATCAAAAAATAGCTGGGATGGTGACACACTGTGA 224
 Db 285 TGAAGCCCTGTCTTCAAAAATACAAACTTACTGAGCATGGTGGATGCACTTGTGA 226
 Oy 225 GTCCAGCTACTCAGAGCCGAGATTCAGTGAAGCTGAGATCGCAGAGTGGCCGAAT 284
 Db 225 GTCCAGCTACTCAGAGGCTGAGATTCAGGAGCAAGATTCACCATTCGACTCCAG 166
 Oy 285 CACAGATCAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 342
 Db 165 CCGTGGCCA-----CAGAGTGAAGTCCGCTCAAAAAAAGAAAAAAGAAAAA 117
 RESULT 13
 LOCUS BF965924 749 bp mRNA linear EST 22-JAN-2001
 DEFINITION 602277287F2 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:4365117 5',
 mRNA sequence.
 ACCESSION BF965924
 VERSION BF965924
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Hominidae; Homo.

REFERENCE 1 (bases 1 to 749)
 AUTHORS NIH-MGC http://mgc.nci.nih.gov/
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabbs-remail.nih.gov
 Tissue Procurement: ATCC
 CDNA Library Preparation: Life Technologies, Inc.
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LMNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LMNL at:
 http://image.lnl.gov
 Plate: LMNL0013 row: m column: 22
 High quality sequence stop: 583.
 FEATURES
 source
 location/Qualifiers
 1..749
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4365117"
 /tissue_type="osteosarcoma, cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_id="NIH_MGC_86"
 /note="Organ: bone; Vector: pCMV-SPORT6; Site 1: NotI;
 Site 2: SalI; Cloned unidirectionally; oligo-dT primed.
 Average insert size 1.533 kb. Library enriched for
 full-length clones and constructed by Life Technologies.
 Note: this is a NIH_MGC library."
 ORIGIN
 Query Match 37.0%; Score 148; DB 2; Length 749;
 Best Local Similarity 74.3%; Pred. No. 1.6e-18;
 Matches 199; Conservative 1; Mismatches 66; Indels 2; Gaps 1;
 Oy 81 ATGCTGTAATCCAGCACTTCGGAGGCGCAAGTGGGCGGATCAGCTGAGTCAAGAGA 140
 Db 137 AGCGCTGTAATCCAGCACTTTGGAGGCTGAGGTGGGAGATCAGCTGAGTTAGAGAT 196
 Oy 141 TCGAGACCATCTGGCCAACTGTAAGTGAACCCGCTTTTAAATAATCAAAAAATGAC 200
 Db 197 TAGAGACAGCGCTGGCCAACTGTAAGTGAACCCGCTTTTAAATAATCAAAAAATGAC 256
 Oy 201 TGGGATGTGTGGCACACCTGTAGTCCAGCTTCAAGAGCCGGAGATTGCAATGAGC 260
 Db 257 CAGGCGGTGTGGCCCACTGTAGTCCAGCTTCAAGAGCCGGAGATTGCAATGAGC 314
 Oy 261 TGAAGTGCAGAGTGAAGCCGAATTCACAGATCAGAGTGAAGTGAAGTGAAGTGAAGTGAAG 320
 Db 315 TGCTTGAACCCAGAGGAGGAGGTTCAGTGAAGCTGGGCGACAGAGCAAGACTGTGCT 374
 Oy 321 CAAAAACAACAACAAAAAACAACAAAAAC 348
 Db 375 CAAAAAAGAAAAAACAAGAAAAAAC 402
 RESULT 14
 LOCUS AQ341973 538 bp DNA linear GSS 06-MAY-1999
 DEFINITION RPCI11-111D18.TV RPCI-11 Homo sapiens genomic clone RPCI-11-111D18,
 genomic survey sequence.
 ACCESSION AQ341973
 VERSION AQ341973.1 GI:4166869
 KEYWORDS GSS.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Hominidae; Homo.
 REFERENCE 1 (bases 1 to 538)
 AUTHORS Zhao, S., Adams, M.D., Niernan, W., Malek, J., de Jong, P. and
 Venter, J.C.
 TITLE Use of BAC End Sequences from Library RPCI-11 for Sequence-Ready

AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Daniela S. Gerhard, Ph.D.
 Office of Cancer Genomics
 National Cancer Institute / NIH
 Bldg. 31 Rm10A07 Bethesda, MD 20892
 Email: cgabbs-remail.nih.gov
 Tissue Procurement: Bresden, Inc.
 cDNA Library Preparation: Express Genomics, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
 DNA Sequencing by: Laboratory for Genomics and Bioinformatics,
 University of Georgia

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNLN at: <http://image.llnl.gov>
 Plate: LLM 17081 ROW: C Column: 13
 Seq primer: JENREV (CAGGAACAGCTATGACC)
 High quality sequence stop: 897.

FEATURES

SOURCE

Location/Qualifiers
 1..897

/organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:7968807"
 /sex="male"
 /tissue_type="embryonic stem"
 /cell_type="human embryonic stem cells"
 /cell_line="BG01"
 /lab_host="DH10B-T1 phage-resistant E. coli"
 /clone_id="NIH MGC 262"
 /note="Vector: pExpress-1; Site 1: NotI; Site 2: EcoRV; RNA obtained from human embryonic stem cells isolated from the inner cell mass of blastocyst stage embryos and differentiated to an early neural progenitor cell type. Cell line id and NIH Registry designation is BG01. Positive for Nestin and Musashi expression. Passage number 18. cDNA primed using oligo-dT primer: 5'-PGACTGATCTTGAATCGGAGCGGCGCC(1)25-3' and cloned into the EcoRV/NotI sites of pExpress-1. This primary library is non-normalized (normalized primary library is NIH MGC 259). It was constructed by Express Genomics (Frederick, MD). Sequence ends have been trimmed to exclude vector and regions below Phred quality 16. Note: this is a Mammalian Gene Collection library."

ORIGIN

Query Match 36.8%; Score 147.2; DB 10; Length 897;
 Best Local Similarity 75.4%; Pred. No. 2.2e-18;

Matches 196; Conservative 1; Mismatches 59; Indels 4; Gaps 1;

OY 81 ATGCTGTAATCCAGCACTTCGGAGCGCAAGTGCGGCGATCACTGAGGTCAAGAGA 140
 DB 593 ACGCTGTAATCTAGCACTTGGAGGCGGAGGAGTGATCACTGAGGTCAAGAGT 652
 OY 141 TCGAGCAATCTCGGCAACATGTGAAACCCCGCTTACTAAATAACAAAAATAGC 200
 DB 653 TCGAACCAGCTGCGCAACATGTGAAACCTCACTTAAATAACAAAAATAGC 712
 OY 201 TGGGATGATGCGCAACCTGTAGTCCAGCTACTAGAGAGCCGAGATTCAGTGAAGC 260
 DB 713 TGGGATGATGCGCAACCTGTAGTCCAGCTACTAGAGAGCGTGAAGAGAGAAATCA 772
 OY 261 TGAAGTCGAGAGTAGGCGGAAATACAGATCAAGAGTAGAGAGAGAGAGAGAGAG 320
 DB 773 CTGGAACCCAGAGAGTAGGCGGCAAGTGAAGC---AGCGCGCAGAGAGAGAGAGAG 828
 OY 321 CAAAAACAACAACAAAAAC 340
 DB 829 CAAAAAGAAAAAGAAAAAC 848

RESULT 17

DA500385/c
 LOCUS DA500385 486 bp mRNA linear EST 07-NOV-2005
 DEFINITION DA500385 FCBBF3 Homo sapiens cDNA clone FCBBF3014320 5', mRNA
 sequence.
 ACCESSION DA500385
 VERSION DA500385.1 GI:81150116
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homidae; Homo.
 1 (bases 1 to 486)

REFERENCE

AUTHORS

Kimura,K., Wakamatsu,A., Suzuki,Y., Ota,T., Nishikawa,T.,
 Yamashita,R., Yamamoto,J., Sekine,M., Tsutitani,K., Wakaguri,H.,
 Ishii,S., Sugiyama,T., Saito,K., Isono,Y., Irie,R., Kusuda,N.,
 Yoneyama,T., Otsuka,R., Kanda,K., Yokoi,T., Kondo,H., Wagatsuna,M.,
 Murakawa,K., Ishida,S., Ishibashi,T., Takahashi-Fujii,A.,
 Tanase,T., Nagai,K., Kikuchi,H., Nakai,K., Isogai,T. and Sugano,S.
 Diversification of Transcriptional Modulation: Large-scale
 Identification and Characterization of Putative Alternative
 Promoters of Human Genes
 Genome Res. 16 (1), 55-65 (2006)

JOURNAL
 PUBMED
 COMMENT

Contact: Takao Isogai
 FliJ Project (HRI Team)
 Helix Research Institute
 2-6-7 Kazusa-Kamatari, Kisarazu, Chiba, 292-0818, Japan
 Tel: 81-438-52-3975
 Fax: 81-438-52-3986
 Email: flij-cdn@infocity.com

NEPO human cDNA project (New Energy and Industrial Technology
 Developmental Organization, Japan); cDNA library construction;
 Helix Research Institute for Biotechnology (HRI); 5'-end one pass sequencing: HRI,
 Research Association for Biotechnology (RAB) and Biotechnology
 Center, National Institute of Technology and Evaluation; 3'-end one
 pass sequencing: RAB.

FEATURES

SOURCE

Location/Qualifiers
 1..486

/organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="FCBBF3014320"
 /tissue_type="brain"
 /dev_stage="fetal"
 /clone_id="FCBBF3"
 /note="Vector: pME18FL3"

ORIGIN

Query Match 36.8%; Score 147; DB 9; Length 486;
 Best Local Similarity 71.9%; Pred. No. 2.7e-18;

Matches 192; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

OY 81 ATGCTGTAATCCAGCACTTCGGAGCGCAAGTGCGGCGATCACTGAGGTCAAGAGA 140
 DB 375 ACGCTGTAATCTAGCACTTGGAGGCGGAGGAGTGATCACTGAGGTCAAGAGT 316
 OY 141 TCGAGCAATCTCGGCAACATGTGAAACCCCGCTTACTAAATAACAAAAATAGC 200
 DB 315 TCAAGACCAGCTGCGCAACATGTGAAACCCCACTTCTAAATAACAAAAATAGC 256
 OY 201 TGGGATGATGCGCAACCTGTAGTCCAGCTACTAGAGAGCCGAGATTCAGTGAAGC 260
 DB 255 TGGGATGATGCGCAACCTGTAGTCCAGCTACTAGAGAGCGTGAAGAGAGAGAGAG 196
 OY 261 TGAAGTCGAGAGTAGGCGGAAATACAGATCAAGAGTAGAGAGAGAGAGAGAGAG 320
 DB 195 CAAGATGCAACAATGCACTCGAGCTGGGAGAGAGAGAGAGAGAGAGAGAGAGAG 136
 OY 321 CAAAAACAACAACAAAAAC 347
 DB 135 TAAATTAATAATAATAATAATAATAACA 109


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RESULT 18
LOCUS      DA180817/c      540 bp      mRNA      linear      EST 01-NOV-2005
DEFINITION DA180817 BRAVY2 Homo sapiens cDNA clone BRAVY2045648 5', mRNA
SEQUENCE   DA180817
ACCESSION  DA180817
VERSION    DA180817.1 GI:78555451
KEYWORDS   EST.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Homiidae; Homo
REFERENCE  1 (bases 1 to 540)
AUTHORS   Kimura,K., Wakamatsu,A., Suzuki,Y., Ota,T., Nishikawa,T.,
            Yamashita,R., Yamamoto,J., Sekine,M., Teurttani,K., Wakaguri,H.,
            Ishii,S., Sugiyama,T., Saito,K., Isono,Y., Irie,R., Kushida,N.,
            Yoneyama,T., Otsuka,R., Kanda,K., Yokoi,T., Kondo,H., Magatsuma,M.,
            Murakawa,K., Ishida,S., Ishibashi,T., Takahashi-Fujii,A.,
            Tanabe,T., Nagai,K., Kikuchi,H., Nakai,K., Isogai,T. and Sugano,S.
            Diversification of Transcriptional Modulation: Large-scale
            Identification and Characterization of Putative Alternative
            Promoters of Human Genes
JOURNAL    Genome Res. 16 (1), 55-65 (2006)
PUBMED     16344560
COMMENT    Contact: Takao Isogai
            Fly Project (HRI Team)
            Helix Research Institute
            2-6-7 Kazusa-Kamatari, Kisarazu, Chiba, 292-0818, Japan
            Tel: 81-438-52-3975
            Fax: 81-438-52-3986
            Email: fli@cdnaaffinity.com
            NEO human cDNA project (New Energy and Industrial Technology
            Developmental Organization, Japan); cDNA library construction:
            Helix Research Institute (HRI); 5'-end one pass sequencing: HRI,
            Research Association for Biotechnology (Rab) and Biotechnology
            Center, National Institute of Technology and Evaluation; 3'-end one
            pass sequencing: Rab.
FEATURES   Location/Qualifiers
            source          1..540
                        /organism="Homo sapiens"
                        /mol_type="mRNA"
                        /db_xref="taxon:9606"
                        /clone="BRVY2045648"
                        /tissue_type="amygdala"
                        /clone_id="BRVY2"
                        /note="Vector: pME18SFL3"
ORIGIN
Query Match      36.8%; Score 147; DB 9; Length 540;
Best Local Similarity 71.9%; Pred. No. 2.7e-18;
Matches 192; Conservative 0; Mismatches 75; Indels 0; Gaps 0;
Ox      ATGCTGTAATCCGACGACTTCGGAGGCGCAAGTGGCGGATCACTGAGGTCAAGGA 140
Db      AGCGCTAATATCCGACGACTTCGGAGGCGTGAAGCGGTGATCACTGAGGTCAAGGA 308
Ox      141 TCGAGACCATCTGGCCCAACATGTGGAACCCCGCTTTACTTAATAATACAAAAATAGC 200
Db      367 ACGCTAATATCCGACGACTTCGGAGGCGTGAAGCGGTGATCACTGAGGTCAAGGA 308
Ox      141 TCGAGACCATCTGGCCCAACATGTGGAACCCCGCTTTACTTAATAATACAAAAATAGC 200
Db      307 TCAAGACCAAGCTGGCCCAACATGTGGAACCCCGCTTTACTTAATAATACAAAAATAGC 248
Ox      201 TGGGATGATGAGCAACACCTGTAGTCCAGCTACTCAGAGCCGGAATGCAATGAGC 260
Db      247 TGGGATGATGAGTGTATGCTGTATATCCAGCTATTTGGAGGCTGAGGTGCAATGAGC 188
Ox      261 TGAAGTCGACAGTGAAGCGGAATACAGATCAAGATGAGAGAGAGACACCCGCTCT 320
Db      187 CAAGATGCGACCACTGCACTCCAGCTGGGTGACAGCAAGACTCCGCTCTCCAAAAA 128
Ox      321 CAAAAACAACAACAAAAA 347
Db      127 TAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 101

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RESULT 19
LOCUS      BG258140/c      545 bp      mRNA      linear      EST 13-FEB-2001
DEFINITION BG258140 NIH_MGC_92 Homo sapiens cDNA clone IMAGE:4510256 5',
            mRNA sequence.
SEQUENCE   BG258140
ACCESSION  BG258140
VERSION    BG258140.1 GI:12767956
KEYWORDS   EST.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Homiidae; Homo.
REFERENCE  1 (bases 1 to 545)
AUTHORS   NIH-MGC http://mgi.nci.nih.gov/.
            National Institutes of Health, Mammalian Gene Collection (MGC)
            Unpublished (1999)
JOURNAL    Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-remail.nih.gov
            Tissue Procurement: ATCC
            cDNA Library Preparation: Life Technologies, Inc.
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LNL at:
            http://image.lnl.gov
            Plate: LILMI0391 row: m column: 09
            High quality sequence at: 542.
FEATURES   Location/Qualifiers
            source          1..545
                        /organism="Homo sapiens"
                        /mol_type="mRNA"
                        /db_xref="taxon:9606"
                        /clone="IMAGE:4510256"
                        /tissue_type="embryonal carcinoma, cell line"
                        /lab_host="DH10B (phage-resistant)"
                        /clone_id="NIH_MGC_92"
                        /note="Organ: testis; Vector: pCMV-SPORT6; Site 1: NotI;
                        Site 2: SalI; Cloned unidirectionally; oligo-dT primed.
                        Average insert size 2.5 kb. Library enriched for
                        full-length clones and constructed by Life Technologies.
                        Note: this is a NIH_MGC Library."
ORIGIN
Query Match      36.8%; Score 147; DB 2; Length 545;
Best Local Similarity 71.9%; Pred. No. 2.7e-18;
Matches 192; Conservative 0; Mismatches 75; Indels 0; Gaps 0;
Ox      81 ATGCTGTAATCCGACGACTTCGGAGGCGCAAGTGGCGGATCACTGAGGTCAAGGA 140
Db      445 ACGCTAATATCCGACGACTTCGGAGGCGTGAAGCGGTGATCACTGAGGTCAAGGA 386
Ox      141 TCGAGACCATCTGGCCCAACATGTGGAACCCCGCTTTACTTAATAATACAAAAATAGC 200
Db      385 TCAAGACCAAGCTGGCCCAACATGTGGAACCCCGCTTTACTTAATAATACAAAAATAGC 326
Ox      201 TGGGATGATGAGCAACACCTGTAGTCCAGCTACTCAGAGCCGGAATGCAATGAGC 260
Db      325 TGGGATGATGAGTGTATGCTGTATATCCAGCTATTTGGAGGCTGAGGTGCAATGAGC 266
Ox      261 TGAAGTCGACAGTGAAGCGGAATACAGATCAAGATGAGAGAGAGACACCCGCTCT 320
Db      265 CAAGATGCGACCACTGCACTCCAGCTGGGTGACAGCAAGACTCCGCTCTCCAAAAA 206
Ox      321 CAAAAACAACAACAAAAA 347
Db      205 TAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 179

```

RESULT 20
DA158439/c

LOCUS	DA158439	547 bp	mRNA	linear	EST 30-OCT-2005
DEFINITION	DA158439 BRAMY2 Homo sapiens cDNA clone BRAMY2017998 5', mRNA sequence.				
ACCESSION	DA158439				
VERSION	DA158439.1	GI:78296613			
KEYWORDS	EST.				
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.				
AUTHORS	1 (bases 1 to 547)				
	Kimura,K., Makamatsu,A., Suzuki,Y., Ota,T., Nishikawa,T., Yamashita,R., Yamamoto,J., Sekine,M., Ishitani,K., Wakaguri,H., Ishii,S., Sugiyama,T., Saito,K., Isono,Y., Irie,R., Kushida,N., Yoneyama,T., Otsuka,R., Kanda,S., Iribuchi,T., Kondo,H., Wagaetsuma,M., Murakawa,K., Ishida,S., Iribuchi,T., Takahashi-Fujii,A., Tanase,T., Nagai,K., Kikuchi,H., Nakai,K., Isogai,T. and Sugano,S.				
TITLE	Diversification of Transcriptional Modulation: Large-scale Identification and Characterization of Putative Alternative Promoters of Human Genes				
JOURNAL	Genome Res. 16 (1), 55-65 (2006)				
PUBMED	16344560				
COMMENT	Contact: Takao Isogai FLJ Project (HRI Team) Helix Research Institute 2-6-7 Kazusa-Kamatari, Kisarazu, Chiba, 292-0818, Japan Tel: 81-438-52-3975 Fax: 81-438-52-3986 Email: flj-cdn@hri.co.jp NEBO human cDNA project (New Energy and Industrial Technology Developmental Organization, Japan); cDNA library construction: Helix Research Institute (HRI); 5'-end one pass sequencing: HRI, Research Association for Biotechnology (RAB) and Biotechnology Center, National Institute of Technology and Evaluation; 3'-end one pass sequencing: RAB.				
FEATURES	Location/Qualifiers				
source	1..547				
	/organism="Homo sapiens"				
	/mol_type="mRNA"				
	/db_xref="taxon:9606"				
	/clone="BRAMY2017998"				
	/tissue_type="amygdala"				
	/clone_id="BRAMY2"				
	/note="Vector: pME18SFL3"				
ORIGIN					
Query Match	36.8%;	Score 147;	DB 9;	Length 547;	
Best Local Similarity	71.9%;	Pred. No. 2.7e-18;			
Matches 192;	Conservative 0;	Mismatches 75;	Indels 0;	Gaps 0;	
01	ATGGCTGTAATCCCGGACACTTGGGAGGCGAAGGCGGAGTCACTGAGGTCAAGGA	140			
DB	372 ACGCTTAATAATCCGACACTTTGGAGGCTGAGGCCGCTGATCACTGAGGTCAAGGAT	313			
01	TCGAGACCATCTGGCGCAACATGCTGAATCCCGCTTTTACTATAAAATACAAAAATAGC	200			
DB	312 TCAAGACCAAGCTGGCCAAACAGTGAATACCCCACTCTATCAAAAAATATCAAAATTAGC	253			
01	TTGGGATATGTTGGACACACCTGTAGTCCGAGTCACTACAGAGCGGAGATTGCAATGAGC	260			
DB	252 TGGGATATGTTGGATGCTGATCTGTATATCCAGCTACTTGGGAGGCTGAAGTTGCAATGAGC	193			
01	TTGAGTTCGCAAGTGAAGCGGAATACAGATACAGATACAGATGAGAGAGTGAAGCCCGCT	320			
DB	192 CAAAGTTCGCAAGTGAAGCTCCAGCTGGTGGTGAAGACGAAGATCCGCTCTCCAAAAAA	133			
01	CAAAAAACAACAACAAAAAATCAAAAAA 347				
DB	132 TAAATTAATTAATTAATTAATTAATCA 106				
RESULT	21				

DB176347/c	DB176347	569 bp	mRNA	linear	EST 10-DEC-2005
LOCUS	DB176347	TKIDN2 Homo sapiens cDNA clone	TKIDN2012877 5', mRNA		
DEFINITION	DB176347	sequence.			
ACCESSION	DB176347				
VERSION	DB176347.1	GI:83514420			
KEYWORDS	EST.				
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae; Homo.				
AUTHORS	1 (bases 1 to 569)				
	Kimura,K., Wakamatsu,A., Suzuki,Y., Ota,T., Nishikawa,T., Yamaehita,R., Yamamoto,J., Sekine,M., Teuriltani,K., Makaguri,H., Ishii,S., Sugiyama,T., Saito,K., Isoho,Y., Irie,R., Kusuda,N., Yoneyama,T., Otsuka,R., Kanda,K., Yokoi,T., Kondo,H., Wagatsuna,M., Murakawa,K., Ishida,S., Ishibashi,T., Takahashi-Fujii,A., Tanase,T., Nagai,K., Kikuchi,H., Nakai,K., Isogai,T. and Sugano,S.				
TITLE	Diversification and Characterization of Transcriptional Modulation: Large-scale Identification and Characterization of Putative Alternative Promoters of Human Genes				
JOURNAL	Genome Res. 16 (1), 55-65 (2006)				
PUBMED	16344560				
COMMENT	Contact: Takao Isogai FLJ Project (HRI Team) Helix Research Institute 2-6-7 Kazusa-Kamatari, Kisarazu, Chiba, 292-0818, Japan Tel: 81-438-52-3975 Fax: 81-438-52-3986 Email: flj-cdna@hri.tyco.com NEO human cDNA project (New Energy and Industrial Technology Developmental Organization, Japan); cDNA library construction: Helix Research Institute (HRI); 5'-end one pass sequencing: HRI, Research Association for Biotechnology (RAB) and Biotechnology Center, National Institute of Technology and Evaluation; 3'-end one pass sequencing: RAB.				
FEATURES	Location/Qualifiers				
source	1..569				
	/organism="Homo sapiens"				
	/mol_type="mRNA"				
	/db_xref="taxon:9606"				
	/clone="TKIDN2012877"				
	/tissue_type="kidney, tumor tissue"				
	/clone_id="TKIDN2"				
	/note="Vector: pME18SFL3"				
ORIGIN					
Query Match	36.8%;	Score 147;	DB 9;	Length 569;	
Best Local Similarity	71.9%;	Pred. No. 2.7e-16;			
Matches 192;	Conservative 0;	Mismatches 75;	Indels 0;	Gaps 0;	
81	ATGCGCTGAATCCGACGACTTCGGGAGGCGCAGGTGGGCGGATCATCGTAGTCAAGAGA	140			
DB	386 ACGCTTAATACCCAGACACTTTGGGAGGCTGAGGCCGGTGGATCATCGTAGAGTCAGAGGT	327			
141	TCGAGACCATCTGCGCCCAACATGGTGAATCCCGCTCTTACTAAATAATCAAAAAATATGC	200			
DB	326 TCAAGACCCAGCGCTGGCCCAACAGGTGAATCCCACTCTTACTAAATAATCAAAAAATATGC	267			
201	TGGGCAATGATGGGCAACACCTGTGTGTCCAGACTACTAGAGACCGGAGATTGCAGTAGGC	260			
DB	266 TGGGCAATGATGGTGCATGCTCTGTAACTCCAGCTACTTGGGAGGCTGAGAGTTGCAGTAGC	207			
261	TGAGATCGCAGAGTGAGCCGAATCAAGATCACAGATGAGAGTGAGAGTGAAGACCCGCTCT	320			
DB	206 CAAGATGCGCAACATGCGCACTCCAGCTGGGGTGAAGAGACAGAGCTCCGCTCCCAAAAAA	147			
321	CAAAAAACAACAAAAACAAAAA	347			
DB	146 TAAATTAATTAATTAATTAATTAATTAATCA	120			

RESULT 22
 DA808834/c
 LOCUS DA808834 OCBP3 Homo sapiens cDNA clone OCBP3024884 5', mRNA
 DEFINITION DA808834 OCBP3 Homo sapiens cDNA clone OCBP3024884 5', mRNA
 ACCESSION DA808834
 VERSION DA808834.1 GI:82089716
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE 1 (bases 1 to 581)
 AUTHORS Yamashita, R., Yamamoto, J., Suzuki, Y., Ota, T., Nishikawa, T., Ishii, S., Sugiyama, T., Saito, K., Isono, Y., Irie, R., Kushiya, N., Yoneyama, T., Otsuka, R., Kanda, K., Yokoi, T., Kondo, H., Wagatsuma, M., Murakawa, K., Ishida, S., Ishibashi, T., Takahashi-Fujii, A., Tanase, T., Nagai, K., Kikuchi, H., Nakai, K., Isogai, T. and Sugano, S.
 TITLE Identification and Characterization of Putative Alternative Promoters of Human Genes
 JOURNAL Genome Res. 16 (1), 55-65 (2006)
 PUBMED 16344560
 COMMENT Contact: Takao Isogai
 Fij Project (HRI Team)
 Helix Research Institute
 2-6-7 Kazusa-Kamatari, Kisarazu, Chiba, 292-0818, Japan
 Tel: 81-438-52-3975
 Fax: 81-438-52-3986
 Email: fji-cdna@nifty.com
 NEDO human cDNA project (New Energy and Industrial Technology Developmental Organization, Japan); cDNA library construction: HRI, Helix Research Institute (HRI); 5'-end one pass sequencing: HRI, Research Association for Biotechnology (RAB) and Biotechnology Center, National Institute of Technology and Evaluation; 3'-end one pass sequencing: RAB.
 FEATURES
 source
 location/Qualifiers
 1..581
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="OCBP3024884"
 /tissue_type="brain"
 /dev_stage="fetal"
 /clone_lib="OCBP3"
 /note="Vector: pME18SFL3"

ORIGIN
 Query Match 36.8%; Score 147; DB 9; Length 581;
 Best Local Similarity 71.9%; Pred. No. 2.7e-18;
 Matches 192; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

81 ATGCTGTATCCAGCACTTCGGAGGCGCAAGTGGCGGATCACTGAGTCAAGA 140
 |||||
 579 ACGCTTAAATCCAGCACTTCGGAGGCGTGAAGCGGATCACTGAGTCAAGA 520
 |||||
 141 TCGAGCACTTCGCGCAACATGTTGAAACCCCGTCTTTACTAAATAATCAAA 200
 |||||
 519 TCAAGACAGCTCGCGCAACATGTTGAAACCCCGTCTTTACTAAATAATCAAA 460
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 201 TGGGCAATGTTGGCAACACCTGTAGTCCAGCTTCTCACTGAGAGCGGAGATTG 260
 |||||
 459 TGGGCAATGTTGGCAACACCTGTAGTCCAGCTTCTCACTGAGAGCGGAGATTG 400
 |||||
 261 TGAATGCGAGAGTGAAGCGCAATTCACAGATCAAGATGAGAGTGAAGACCC 320
 |||||
 399 CAATATGCGCAACATGCACTCCAGCTGGGTGAAGAGCAAGACTCCGTCTCC 340
 |||||
 321 CAATAACACACCAAAAAA 347
 |||||
 339 TAAATTAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATA 313
 |||||

RESULT 23
 BM542252/c
 LOCUS BM542252 1085 bp mRNA linear EST 20-FEB-2002
 DEFINITION AGENCOURT 6436650 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:5539645
 ACCESSION BM542252
 VERSION BM542252.1 GI:18771599
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE 1 (bases 1 to 1085)
 AUTHORS NIH-MGC http://mgi.nci.nih.gov/
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strusberg, Ph.D.
 Email: cgsabre-remail.nih.gov
 Tissue Procurement: ATCC/DCTD/DRP
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
 http://image.llnl.gov
 Plate: LLM12234 row: h column: 14
 High quality sequence stop: 418.
 FEATURES
 source
 location/Qualifiers
 1..1085
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:5539645"
 /tissue_type="melanotic melanoma"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_72"
 /note="Organ: skin; Vector: pCMV-SPORT6; Site 1: NotI; Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 2 kb. Library constructed by Life Technologies."

ORIGIN
 Query Match 36.8%; Score 147; DB 2; Length 1085;
 Best Local Similarity 71.9%; Pred. No. 2.4e-18;
 Matches 192; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

81 ATGCTGTATCCAGCACTTCGGAGGCGCAAGTGGCGGATCACTGAGTCAAGA 140
 |||||
 329 ACGCTTAAATCCAGCACTTCGGAGGCGTGAAGCGGATCACTGAGTCAAGA 270
 |||||
 141 TCGAGCACTTCGCGCAACATGTTGAAACCCCGTCTTTACTAAATAATCAAA 200
 |||||
 269 TCAAGACAGCTCGCGCAACATGTTGAAACCCCGTCTTTACTAAATAATCAAA 210
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 201 TGGGCAATGTTGGCAACACCTGTAGTCCAGCTTCTCACTGAGAGCGGAGATTG 260
 |||||
 209 TGGGCAATGTTGGCAACACCTGTAGTCCAGCTTCTCACTGAGAGCGGAGATTG 150
 |||||
 261 TGAATGCGAGAGTGAAGCGCAATTCACAGATCAAGATGAGAGTGAAGACCC 320
 |||||
 149 CAATATGCGCAACATGCACTCCAGCTGGGTGAAGAGCAAGACTCCGTCTCC 90
 |||||
 321 CAATAACACACCAAAAAA 347
 |||||
 89 TAAATTAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATA 63
 |||||

RESULT 24
 AQ381551/c
 LOCUS AQ381551 536 bp DNA linear GSS 21-MAY-1999

DEFINITION RPEC11-165E2.TV RPEC1-11 Homo sapiens genomic clone RPEC1-11-165E2,
genomic survey sequence.

ACCESSION AQ381551

VERSION AQ381551.1 GI:4352574

KEYWORDS GSS.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.

AUTHORS Zhao,S., Adams,M.D., Niernan,W., Malek,J., de Jong,P. and
Venter,J.C.

TITLE Use of BAC End Sequences from Library RPEC1-11 for Sequence-Ready
Map Building

JOURNAL Unpublished (1997)

COMMENT Other GSSs: RPEC11-165E2.TJ
Contact: Shaying Zhao, William Niernan, Mark Adams
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850
Tel: 301 838 0200
Fax: 301 838 0208
Email: hbe@tigr.org
Clones are derived from the human BAC library RPEC1-11. For BAC
library availability, please contact Pieter de Jong
pieter@ejong.med.buffalo.edu. Clones may be purchased from
BACPAC Resources (http://bacpac.med.buffalo.edu/ordering) or from
Research Genetics (info@resgen.com). BAC end search page:
http://www.tigr.org/cdb/humgen/bac_end_search/bac_end_search.html
Seq primer: T7
Class: BAC ends.

FEATURES
source Location/Qualifiers
1..536
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="GDB:7563073"
/db_xref="taxon:9606"
/clone="RPEC1-11-165E2"
/sex="Male"
/cell_type="Lymphocytes"
/clone_id="RPEC1-11"
/note="Vector: pBACe3.6; Site 1: EcoRI; Site 2: EcoRI;
RPEC11 Human Male BAC Library"

ORIGIN
Query Match 36.7%; Score 146.8; DB 11; Length 536;
Best Local Similarity 71.7%; Pred. No. 2.9e-18;
Matches 208; Conservative 1; Mismatches 73; Indels 8; Gaps 1;

84 CCTGTATCCAGCACTTCGGAGGCCCAAGTGGCGGATCACTGAGTCAAGAGATCG 143
|||||
441 CCTGTATCCAGCACTTCGGAGGCCCAAGTGGCGGATCACTGAGTCAAGATTTG 382
|||||
144 AGACCATCTCTGGCCCAACATGTGTAACCCCGCTTTACTTAAATAACAAAAATAGCTGG 203
|||||
381 AGACCAAGCTGGCCCAACATGTGTAACCCCATTTCTATAAAATACAAAAATTTAGCTGG 322
|||||
204 GCATGTGGGACACACCTGTAGTCCAGCTACTCAGAGCCGAGATTCAGTAGAGCTGA 263
|||||
321 GCGTGTGGTGGGTGCTGTATCCCACTACTCGAGAGGCAAGAGTTGTAGTAGGC--- 265
|||||
264 GATGGCAGATGACCCGAATCAACAGATCACAAGATGACAGATGAAATCCCGCTTAA 323
|||||
264 -----CCAAAGATTGCACCACTGCACCTGCTGGGCGACAGAGTGAACATTCATCTCAA 210
|||||
324 AAACAACAACAAAAACAAAAACATTAAGACATTGTCCATCTGCGGTT 373
|||||
209 AAAAAAAGAAAAAGAAAAAGAAAAACATTAAGTGAATTTTAGGGGT 160
|||||

RESULT 25
BQ432755/c

LOCUS BQ432755 775 bp mRNA linear EST 24-MAY-2002

DEFINITION AGENCOURT 7860001 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:6108747
5', mRNA sequence.

ACCESSION BQ432755

VERSION BQ432755.1 GI:21171831

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.

AUTHORS NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)

TITLE Unpublished (1999)

JOURNAL Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: CLONTECH Laboratories, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.lnl.gov
Plate: ILGM2353 row: 1 column: 04
High quality sequence stop: 555.

FEATURES
source Location/Qualifiers
1..775
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6108747"
/tissue_type="from acute myelogenous leukemia"
/lab_host="DH10B (T1 phage-resistant)"
/clone_id="NIH_MGC_55"
/note="Organ: bone marrow; Vector: pDNR-LIB (Clontech);
Site 1: SfiI (ggcgctcgccg); Site 2: SfiI
(ggcattatggcc); Double-stranded cDNA was prepared from
cell line RNA. 5' and 3' adaptors were used in cloning as
follows: 5' adaptor sequence: 5'-CACGCCATTATGCCC-3' and
3' adaptor sequence:
5'-ATTCTAGAGCGCCGAGCGCCGACATG-dt(30)BN-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size
1.65 kb (range 0.9-4.0 kb). 14/15 colonies contained
inserts by PCR. This library was enriched for full-length
clones and was constructed by Clontech Laboratories (Palo
Alto, CA)."

ORIGIN
Query Match 36.7%; Score 146.8; DB 3; Length 775;
Best Local Similarity 72.5%; Pred. No. 2.7e-18;
Matches 190; Conservative 0; Mismatches 72; Indels 0; Gaps 0;

81 ATGCGTGTATCCAGCACTTCGGAGGCCCAAGTGGCGGATCACTGAGTCAAGAGA 140
|||||
645 ACGCTGTATCTCAGCACTTTGGAGGCGCAGGTGATCACTGAGTCAAGAGT 586
|||||
141 TCGGACCATCTCTGGCCCAACATGTGTAACCCCGCTTTACTTAAATAACAAAAATAGC 200
|||||
585 TCAAGACTTACGCTGGCCCAACATGTGTAACCCCGCTTTCTACTTAAATAACAAAAATAGT 526
|||||
201 TGGGATGTGTGGGACACACCTGTAGTCCAGCTACTCAGAGCCGAGATTCAGTAGAGC 260
|||||
525 TGGGATGTGTGGGACATGACCTGTATCCCGCTACTCTCGGAGGCTGAGGTTCAGTAGAGC 466
|||||
261 TGAGATCGCAGATGAGCCGAATTCACAGATCACAAGATGACAGAGTGAACCCCGTCT 320
|||||
465 CAAGATTGACCACTGCACCCCACTGGGCAAAACAGTAGACTTTTCTCAAAAAAAA 406
|||||
321 CAACAACAACAACAAAAACA 342
|||||
405 AAAAAATTAATTAATAGAAAA 384
|||||

```

RESULT 26
AI753536/c
LOCUS
DEFINITION
AI753536 469 bp mRNA linear EST 20-JUN-2002
c11h09.x1 Human bone marrow stromal cells Homo sapiens CDNA clone
HEMSC.c11h09.3', mRNA sequence.
ACCESSION
AI753536
VERSION
AI753536.1 GI:5131800
KEYWORDS
EST.
SOURCE
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 469)
Jia,L., Young,M.F., Powell,J., Yang,L., Ho,N.C., Hotchkiss,R.,
Roley,P.G. and Francomano,C.A.
Gene expression profile of human bone marrow stromal cells:
high-throughput expressed sequence tag sequencing analysis
Genomics 79 (1), 7-17 (2002)
11827452
COMMENT
Contact: Libin Jia
Medical Genetics Branch
National Human Genome Research Institute
10/10C101, 9000 Rockville Pike, Bethesda, MD 20892-1267, USA
Tel: 301-496-7157
Fax: 301-496-7157
Email: libin@nih.gov
DNA Sequencing and analyses by National Institutes of Health
Intramural Sequencing Center (INISC).
Plate: 11 row: h column: 09
Seq primer: -21M13 forward primer (ABI).
FEATURES
SOURCE
1..469
Location/Qualifiers

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source
1. 469
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="HBWSC_c11h09"
/sex="mixed"
/tissue_type="bone marrow stroma"
/dev_stage="mixed"
/lab_host="X11-Blue MRF/SOLR"
/clone_lib="Human bone marrow stromal cells"
/notes="vector: pBluescript; Site_1: EcoRI; Site_2: XhoI;
mRNA made from human bone marrow stroma, cDNA made by
oligo-dt priming. Directionally cloned. Size-selected for
average insert size >0.5 kb. Library constructed by Dr.
Marion Young and Dr. Pamela Gehron Robey (NIHCR). Library
supplied by Dr. Libin Jia (NHGRI)"

```

Query Match	36.7%;	Score 146.6;	DB 1;	Length 469;
Best Local Similarity	67.9%;	Pred. No. 3.3e-18;		
Matches 218;	Conservative 1;	Mismatches 94;	Indels 8;	Gaps 1

QY	33	ACCCAAATATTAAATAGA	CATTGTCAGGCGCAGGCATGAC	CACTGCTGTAATGCTCTTAATC	92
Db	321	ACNCATATTTTACATTTA	GAAATACTGTGAGGCGCATGAGTGGTGGNTC	CAGGCTCTTAATC	262
QY	93	CCAGCACTTCGGGAGGCCA	GGTGGGCGGATACCTGAGGTCAAGAGATCGAGCCATCC	152	
Db	261	CCACACACTTTTGGGAGGCG	GAGGTGGGCGAGATACCGGAGGTCAGAGTTCCGAGACGAGCC	202	
QY	153	TGGCCAAATGATGTAAC	CCCCGCTCTTTACTAAATAACAAATAATAGCTGGGCGATGGTGG	212	
Db	201	TTGGCAACATATGTAAC	AACCTCTCTCTACTATAAATAACAAATAATTAGCGGGCGATGGTGG	142	
QY	213	CACACACCTGTAGTCCAG	CTACTCAGAG-----CCGAGATTGCAGTGAAGCTGAG	264	
Db	141	CAGGCACTGTATATCCAG	CTACTCAGGAGGCTTTTGAACCGAGGAGGAGAGGTTCGAG	82	
QY	265	ATCCCAAGTGAAGCCGAAT	CACAGATCACAGATGAGCAGATGAGACKCCGTCTCAAA	324	

Db	91	CGAGCTGAGATCGGGCCACTGCACACTCCAGCNGTGGTGATTAGAGTAGAATTCAGTCTCCA	22
Cy	325	AACAACACACAAAAAACAAAA	345
Db	21	AAAAAAAAAAAAAAAAAAAAAA	1
RESULT 27			
LOCUS	AI434037/c		
DEFINITION	AI434037	490 bp	mRNA
ACCESSION	F116bD0.x1	NCI CGAP Lym12 Homo sapiens CDNA clone IMAGE:2132539	' linear EST 30-MAR-1999
VERSION	AI434037	similar to contigens Alu repetitive element;	mRNA sequence.
KEYWORDS	AI434037.1	GI:4293374	
SOURCE	EST.		
ORGANISM	Homo sapiens (human)		
	Homo sapiens		
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;		
	Homnidae; Homo.		
REFERENCE	1	(bases 1 to 490)	
AUTHORS	NCI-CGAP	http://www.ncbi.nlm.nih.gov/ncicgap.	
TITLE	National Cancer Institute, Cancer Genome Anatomy Project (CGAP),		
JOURNAL	Tumor Gene Index		
COMMENT	Unpublished (1997)		
	Contact: Robert Strausberg, Ph.D.		
	Email: cgapsb-x@mail.nih.gov		
	Life Technologies catalog #:	11547-015	
	DNA Sequencing by:	Washington University Genome Sequencing Center	
	clone distribution:	NCI-CGAP clone distribution information can be	
	found through the I.M.A.G.E. Consortium/LINL at:		
	www-bio.llnl.gov/dbtp/image/image.html		
	Insert Length:	1365	Std Error: 0.00
	Seq primer:	-40UP from Gibco	
FEATURES	High quality sequence determined.		
SOURCE	Location/Qualifiers		
	1..490		

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FEATURES
SOURCE
location/Qualifiers
1. .490
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:2132539"
/tissue_type="lymphoma, follicular mixed small and large
cell"
/lab_host="DH10B"
/clone_id="NCI CGAP Lym12"
/note="Organ: lymph node; Vector: PCMV-SPORT6; Site: 1:
SalI; Site 2: NotI; Cloned unidirectionally. Primer:
Oligo dT. Average insert size 1.25 kb. Life Technologies
catalog #: 11547-015"
ORIGIN

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Query Match	36.7%	Score 146.6	DB 1	Length 490
Best Local Similarity	75.5%	Pred. No. 3.3e-18		
Matches 182	Conservative 0	Mismatches 59	Indels 0	Gaps 0
QY	63	AGGCATACACTGCGCTGAATCCTGTAACTCCAGACATTCGGAGGCCAAGTGGCCGA	122	
Db	285	AGGCACAGGCACTGGCTCATCCCTCTTAATCCACACATTTGGAGGCCAAGTGGCCGA	226	
QY	123	TCACCTGAGGTCGAAGATCGAGCCATCCTGGCCCAACATGTTGAAACCCGCTTTTAACT	182	
Db	225	TCATCTAGGTCAGAGATTCGAGACCAAGCCTGGCCCAACATGTTGAAACCCATCTCTACT	166	
QY	183	AAAAATCAAAAAATTAAGTCTGGGCATGTGTGGACACACTGTAGTCCACAGTCAATCGAAG	242	
Db	165	AAAAATCAAAAAATTAAGTCTGGGTGTGTGACACATGCTGTAACTCCACGTAATCTGGGAG	106	
QY	243	CCGAGATTGCAATGACTGACTGATCGCAGAGTGAAGCCGAATTCACAGATCAAGAGTAG	302	
Db	105	GCTAGGTTAAGAAATCACTTGAACCAAGAGGCGAAGGCTCAATGAGCCGAATTAAG	46	
QY	303	C 303		

db	45	C	45
RESULT 28			
AG156377/c			
LOCUS			
DEFINITION	AG156377	667 bp	DNA linear GSS 09-JAN-2002
ACCESSION	Pan troglodytes DNA, clone: RP43-020P17.T7, genomic survey		
VERSION	sequence.		
KEYWORDS	AG156377		
SOURCE	GI:16686055		
ORGANISM	Pan troglodytes (chimpanzee)		
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Pan.		
REFERENCE			
AUTHORS	1 Fujiyama, A., Hattori, M., Toyoda, A., Taylor, T.D., Yada, T., Tokoki, Y., Matnabe, H., and Sakaki, Y.		
TITLE	BAC end sequences of library RP43		
JOURNAL	Unpublished		
REFERENCE	2 (bases 1 to 667)		
AUTHORS	Fujiyama, A., Hattori, M., Toyoda, A., Taylor, T.D., Yada, T., Tokoki, Y., Matnabe, H., and Sakaki, Y.		
TITLE	Direct Submission		
JOURNAL	Submitted (02-AUG-2001) Aaso Fujiyama, The Institute of Physical and Chemical Research (RIKEN), Genomic Sciences Center (GSC), 1-7-22 Suehiro-chou, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail: chipmibegsc.riken.go.jp, URL: http://hnp.gsc.riken.go.jp/, Tel: 81-45-503-9111, Fax: 81-45-503-9170)		
COMMENT	Clones are derived from the chimpanzee BAC library RP43 This BAC end was generated during the R&D process and may have higher chances of clone tracking errors.		
	PRIMERS		
	Sequencing: T7		
	LIBRARY		
	Vector : pBACe3.6		
	R.Site 1 : EcoRI		
	R.Site 2 : EcoRI.		
FEATURES	Location/Qualifiers		
source	1..667		
	/organism="Pan troglodytes"		
	/mol_type="genomic DNA"		
	/db_xref="taxon:9598"		
	/clone="RP43-020P17.T7"		
	/sex="male"		
	/cell_type="lymphocytes"		
	/clone_lib="RP43 Chimpanzee Male BAC Library"		
ORIGIN			
	Query Match 36.7%; Score 146.6; DB 14; Length 667;		
	Best Local Similarity 78.2%; Pred. No. 3.1e-18;		
	Matches 176; Conservative 0; Mismatches 49; Indels 0; Gaps 0;		
QY	81 ATGCGTGAATCCGACCTTGAGGAGGCGAAGGTGGGGGATCCTGAGGTCAAGAGA 140		
DB	559 ATGCGTGAATCCGACCTTGAGGAGGCTGAGATGGGCAATCACCTGAGGTCAAGAGT 500		
QY	141 TCGAGACCATCTGGCCCAACATGTGAAAACCCCGCTTTTACTTAAATAACAAAAATAGC 200		
DB	499 TTGAACACGAGCTGGCCCAACATGTGAAAACCCCATCTCTACTTAAATAACAAAAATAGC 440		
QY	201 TGGGATGTGGCACACACCTTGTATCCCAAGTACTCAGAGACCGGAGATTTCAGTGAAC 260		
DB	439 TGGGATGTGGCACAGCGCTGTAGTCCCAAGTACTCAGAGACCGTGAAGACGAGAGATTG 380		
QY	261 TGAGATCGAGAGTGAGCGGGAATACACGATCAACAGAGTGAGCAG 305		
DB	379 CTGGAACCCGGAGGCGAGATTTCGACGTAGCTGAGATTGAGCCG 335		
RESULT 29			
AW902341/c			

LOCUS	AW902241	406 bp	mRNA	linear	EST 24-MAY-2000
DEFINITION	OV3-NN1023-130500-179-b08 NN1023	Homo sapiens	CDNA	mRNA	sequence.
ACCESSION	AW902241				
VERSION	AW902241.1	GI:8066546			
KEYWORDS	EST.				
ORGANISM	Homo sapiens (human)				
SOURCE	Homo sapiens				
REFERENCE	Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eumetazoa; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.				
AUTHORS	1 (bases 1 to 406)				
TITLE	Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F., Goldman, G.H., Carvalho, A.F., Matsumura, A., Bata, G.S., Simpson, D.H., Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.				
JOURNAL	Shogen sequencing of the human transcriptome with ORF expressed sequence tags				
PUBMED	Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)				
COMMENT	10737800				
	Contact: Simpson A.J.G.				
	Laboratory of Cancer Genetics				
	Ludwig Institute for Cancer Research				
	Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil				
	Tel: +55-11-2704922				
	Fax: +55-11-2707001				
	Email: asimpson@ludwig.org.br				
	This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL.				
	(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=et2-QV3-NN1023-130500-179-b08&ct3=2000-05-13&v4=1)				
	Seq primer: puc 18 forward				
	High quality sequence start: 22				
	High quality sequence stop: 406.				
FEATURES	location/Qualifiers				
source	1..406				
	/organism="Homo sapiens"				
	/mol_type="mRNA"				
	/db_xref="taxon:9606"				
	/dev_stage="Adult"				
	/clone_lib="NN1023"				
	/note="Organ: nervous normal; Vector: puc18; Site 1: SmaI; Site 2: SmaI; A mini-library was made by cloning products derived from ORSTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the puc 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."				
ORIGIN					
Query Match	36.6%;	Score 146.4;	DB 7;	Length 406;	
Best Local Similarity	86.2%;	Pred. No. 3.7e-18;			
Matches 162;	Conservative 0;	Mismatches 26;	Indels 0;	Gaps 0;	
QY	81	ATGCGTGAATCCCGACGACTTCGGAGGCGCAAGTGGCGGATCACTGAGTCAAGAGA	140		
DB	301	ACGCTTGATGATCCAGGACCTTTCAGAGGCCAGGCGGATCACTGAGGTACAGAGT	242		
QY	141	TCGAGACCATCTCGGCAACAATGTGTAACCCCGCTTTTACTAAATAACAAAATATGC	200		
DB	241	TCGAGACCAAGCTGGCCAAATATGGGAACCCCGCTCTACTAAATAACAAAATTTAGC	182		
QY	201	TGGGCAATGGTGGACACACCTGTATCCCACTATCTCAGAGCCGGAAGATTGCACTGAGC	260		
DB	181	TGGGGTGTGTGGGCACTGTATCTCCAGCTACTCAGAGGCGAGAGGTTCGGTAAGC	122		
QY	261	TGAGATCG 268			
DB	121	CGAGTAG 114			

FEATURES	source
RESULT 30	
LOCUS	AI302156/c
DEFINITION	AI302156 524 bp mRNA linear EST 03-DEC-1998
ACCESSION	g188a05.x1 NCI-CCAP Kid5 Homo sapiens cDNA clone IMAGE:1902416 3'
VERSION	AI302156
KEYWORDS	similar to contains Alu repetitive element,, mRNA sequence.
SOURCE	AI302156.1 GI:3961502
ORGANISM	EST.
	Homo sapiens (human)
	Homo sapiens
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
	Homnidae; Homo.
REFERENCE	1 (bases 1 to 524)
AUTHORS	NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap .
TITLE	National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
	Tumor Gene Index
JOURNAL	Unpublished (1997)
COMMENT	Contact: Robert Strausberg, Ph.D.
	Email: cgapbs-remail.nih.gov
	Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
	Emmert-Buck, M.D., Ph.D.
	cDNA Library Preparation: M. Bento Soares, Ph.D.
	cDNA Library Arrayed by: Greg Lennon, Ph.D.
	DNA Sequencing by: Washington University Genome Sequencing Center
	clone distribution: NCI-CCAP clone distribution information can be
	found through the I.M.A.G.E. Consortium/ILMW at:
	www-bio.1lnl.gov/bbrp/image/image.html
	Seq primer: -40UP from Glbco
	High quality sequence stop: 461.
	Location/Qualifiers
	1..524

RESULT	31
LOCUS	CR860050 1459 bp mRNA linear HTC 12-NOV-2004 CR860050
DEFINITION	Pongo pygmaeus mRNA; CDNA DKFZp470B1412 (from clone DKFZp470B1412).
ACCESSION	CR860050
VERSION	CR860050.1 GI:55730961
KEYWORDS	HTC.
SOURCE	Pongo pygmaeus (orangutan)
ORGANISM	Pongo pygmaeus
	Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Pongo. 1 (bases 1 to 1459) Wambuitz,K., Heubner,D., Mewes,H.W., Weil,B., Amid,C., Oanger,A., Fodor,G., Han,M. & Wiemann,S. The German cDNA Consortium Direct Submission Submitted (12-NOV-2004) MIPS, Ingolstaedter Landstr.1, D-85764 Neuharberg, Germany Wiemann, S. Wiemann, Molecular Genome Analysis, German Cancer Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de; sequenced by Agowa (Berlin/Germany) within the cDNA sequencing consortium of the German Genome Project. This clone (DKFZp470B1412) is available at the RZPD Deutsches Resourcenzentrum fuer Genomforschung GmbH in Berlin, Germany. Please contact RZPD for ordering: http://www.rzpd.de/cgi-bin/products/cl.cgi?cloneID=DKFZp470B1412 Further information about the clone and the sequencing project is available at http://mips.gsf.de/projects/cdna/ . Location/Qualifiers
REFERENCE	
AUTHORS	
CONSRPT	
TITLE	
JOURNAL	
COMMENT	
FEATURES	

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/cd_xref="taxon:3606"
/clone="IMAGE:1902416"
/tissue_type="2 pooled tumors (clear cell type)"
/lab_host="DH10B"
/clone_id="NCI CGAP Kid5"
/notes="Organ: kidney; Vector: pT73D-PacI; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was primed with a Not I - oligo (dT) primer [5', AACTGAGAGATTTCGCGCGCCGACATATTTTTTTTTTTTTTTT 3'], double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I - and Eco RI sites of the modified pT73 vector. Library - went through one round of normalization. Library constructed by Bento Soares and W. Fatima Bonaldo. "

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```

/mol_type="mRNA"
/db_xref="taxon:9600"
/clone="DKFZp470B1412"
/trisue_type="liver"
/clone_id="470 (synonym: pliv1). Vector pSport1_Sfi; host DH10B; sites SfilA + SfilB"
/dev_stage="adult"
/note="TGF-beta receptor interacting protein 1 (Homo sapiens)"
1..1459
/gene="DKFZp470B1412"
15..992
/cds="DKFZp470B1412"
/codon_start=1

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	Query Match	Best Local Similarity	36.6% ; Score 146.4 ; DB 1 ; Length 524 ;
	Matches	209 ; Conservative	1 ; Mismatches 62 ; Indels 16 ; Gaps 1 ;
QY	81	ATGCGCTGTAATCCGACGACTTCGGGAGGCCAAGGTGGCGGATGATCACTGAGGTCAAGAGA	140
DB	450	ATGCGCTGTAATCCGACGACTTCGGGAGGTGAGGCGCGGCGATGATGTTGAGCTCAGAGACT	391
QY	141	TCGAGACCATCTCTGGCCAACTGCTGTAACCCCGCTCTTTACTAATAAATATACAAAAATAGC	200
DB	390	TCGAGACCAAGCTGTGGCCAACTGCTGTAACCCCGCTCTCTAATAAATAAATAAATAGC	331
QY	201	TGGGCATGTGTGGCACACACCTGTGTGTCTCCAGCTTACTAGAGACCGGAGATTGCAGTAGC	260
DB	330	TGGGCATGTGTGTGGCACACCTGTGTGTCTCCAGCTTACTTTGGAGAGCTGAGGTAGGAGATGG	271
QY	261	TGAGATGCGAGATGAGACCGCAATACAGATTCACAGAGTAG-----CA	304
DB	270	CTTGAGGCTGGGAGGTGGAAGTTGCAATGAGCGAGACCGTGCTCCAGCGCTGGGTGACA	211
QY	305	GAGTGAATACCCGCTCTCAAAAAACAACAACAAAAAACCAAAATACCA	352
DB	210	GAGGGAACCTCTGCTCAAAAAATAATATAATAATAATAATAATAA	163

Query Match	36.6%;	Score 146.4;	DB 6;	Length 1459;
Best Local Similarity	73.8%;	Pred. No. 2.9e+18;		
Matches 186;	Conservative 0;	Mismatches 66;	Indels 0;	Gaps 0;
QY	46	TAAGACATTGTCAAGCCAGGCGATGACACTGGCTGAAATGCTTAAATCCACGACTTCGGG	105	
Db	990	TAAAGAGCTGGAGATCTCTCGCAGGCGCGGTGCTCATGCTCTTAAATCCACCACTTGTGGG	1049	
QY	106	AGGCCAAGGTGGGCGGATCACTGAGGTCAAGATCGAAGCATCTGGCCAAACATGGT	165	
Db	1050	AGGCCAAGATGGGCGGATCACTGAGGTCAAGAGTTGAGACCAAGCTGACCAACATGGA	1109	
QY	166	GAAACCCCGTCTTTACTAAATAATACAAAAAATAGCTGGGCATGTGGCACACACTGTAG	225	


```

Db      1110 GAAACCCGCTCTACTATAAATAAATAATAGCCGGGATGGTGCAACAGCCTATAG 1169
Oy      226 TCCAGACTACTCAGAGCCGAGATTGCGAGTGAGTCCGAGAGTACCGGAATC 285
Db      1170 TCCAGACTACTCAGAGCCGAGATTGCGAGTGAGTCCGAGAGTACCGGAATC 1229
Oy      286 ACAGATCAGAGA 297
Db      1230 AGTAGCTGAGA 1241

RESULT 32
LOCUS   CN268905 302 bp mRNA linear EST 16-MAY-2004
DEFINITION 17000597786250 GRN PREHBP Homo sapiens cDNA 5', mRNA sequence.
ACCESSION CN268905
VERSION   CN268905.1 GI:47285319
KEYWORDS EST.
SOURCE   Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
1 (bases 1 to 302)
Brandenberger, R., Wei, H., Zhang, S., Lei, S., Murage, J., Fisk, G.J.,
Li, Y., Xu, C., Fang, R., Guegler, K., Rao, M.S., Mandelam, R.,
Lebkowski, J. and Stanton, L.W.
Transcriptome characterization elucidates signaling networks that
control human ES cell growth and differentiation
Nat. Biotechnol. 22 (6), 707-716 (2004)
15146197
JOURNAL Contact: Brandenberger R
PUBMED Regenerative Medicine
COMMENT Geron Corporation
230 Constitution Drive, Menlo Park, CA 94025, USA
Tel: 650 473 8658
Fax: 650 473 7760
Email: rbrandenberger@geron.com
Insert Length: 302 Std Error: 0.00.
Location/Qualifiers
1..302
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/issue_type="embryonic stem cells, DMSO-treated H9 cell
line"
/clone_lib="GRN PREHBP"
/notes="Oligo dt primed, full-length enriched cDNA library
from DMSO-treated hES cell line H9 (p22) maintained in
feeder-free conditions"

FEATURES
source
Location/Qualifiers
1..302
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/issue_type="embryonic stem cells, DMSO-treated H9 cell
line"
/clone_lib="GRN PREHBP"
/notes="Oligo dt primed, full-length enriched cDNA library
from DMSO-treated hES cell line H9 (p22) maintained in
feeder-free conditions"

ORIGIN
Query Match 36.6%; Score 146.2; DB 8; Length 302;
Best Local Similarity 78.5%; Pred. No. 4,3e-18;
Matches 175; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

Oy      81 ATGCTGTATATCCAGCACTTGGGAGCCGAGTGGCGGATCACTGAGTCAAGAGA 140
Db      299 ACGCTGTATATCCAGCACTTGGGAGCCGAGTGGCGGATCACTGAGTCAAGAGA 240
Oy      141 TCGAGACCATCTCGGCCAATGTGTAACCCCGTCTTACTATAAATAAATAATAGC 200
Db      239 TCAAGACCATCTCGGCCAATGTGTAACCCCGTCTTACTATAAATAAATAATAGC 180
Oy      201 TGGGAGTGTGGCACAACCTGTAGTCCAGCTACTCAGAGCCGAGATTGCAATGAGC 260
Db      179 CGGGGTGTGGCGGGCGCTGTAGTCCAGCTACTCAGAGGCTGAGGCAAGAAATGG 120
Oy      261 TGAAGTCCGAGAGTGAAGCGGAATATCAAGATACAGAGTGAAGC 303
Db      119 CGTGAACCCGGAGGCGGAGCTTGGCAGTGAAGCGGAGATTGGCG 77

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RESULT 33
LOCUS   BM712012/c 419 bp mRNA linear EST 28-FEB-2002
DEFINITION U1-E-DWI-ahc-a-08-0-UI.r1 U1-E-DWI Homo sapiens cDNA clone
U1-E-DWI-ahc-a-08-0-UI 5', mRNA sequence.
ACCESSION BM712012
VERSION   BM712012.1 GI:19025270
KEYWORDS EST.
SOURCE   Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
1 (bases 1 to 419)
Bonaldi, M.F., Lennon, G. and Soares, M.B.
Normalization and subtraction: two approaches to facilitate gene
discovery
Genome Res. 6 (9), 791-806 (1996)
8889548
JOURNAL Contact: Soares, MB
PUBMED Coordinated Laboratory for Computational Genomics
COMMENT University of Iowa
375 Newton Road, 4156 MEBRF, Iowa City, IA 52242, USA
Tel: 319 335 8250
Fax: 319 335 9565
Email: bentso-soares@uiowa.edu
Tissue Procurement: Dr. Gregg Hageman
cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Researchers may obtain clones from Research
Genetics (www.resgen.com).
The following repetitive elements were found in this cDNA
sequence: 1-181, >ALU (matched complement) 55-316, >ALU (matched
complement)
Seq primer: M13 Reverse.
Location/Qualifiers
1..419
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="U1-E-DWI-ahc-a-08-0-UI"
/tissue_type="lens"
/dev_stage="adult"
/lab_host="DH10B (Life Technologies) (T1 phage resistant)"
/clone_lib="U1-E-DWI"
/notes="Organ: eye; Vector: pT7T3-Pac (Pharmacia) with a
modified polylinker; Site 1: Ecor I; Site 2: Not I;
U1-E-DWI is a normalized cDNA library containing the
following tissue(s): lens. The library was constructed
according to Bonaldi, Lennon and Soares, Genome Research,
6:791-806, 1996. First strand cDNA synthesis was primed
with an oligo-dT primer containing a Not I site. Double
stranded cDNA was ligated to an Ecor I adaptor, digested
with Not I, and cloned directionally into pT7T3-Pac
vector. The oligonucleotide used to prime the synthesis of
first-strand cDNA contains a library tag sequence that is
located between the Not I site and the (dfr)18 tail. The
sequence tag for this library is CGATTAGCGA. This library
was created for the program, Gene Discovery in the Visual
System, supported by National Eye Institute (NEI)."

ORIGIN
Query Match 36.6%; Score 146.2; DB 3; Length 419;
Best Local Similarity 75.3%; Pred. No. 4e-18;
Matches 195; Conservative 1; Mismatches 59; Indels 4; Gaps 1;

Oy      81 ATGCTGTATATCCAGCACTTGGGAGCCGAGTGGCGGATCACTGAGTCAAGAGA 140
Db      299 ACGCTGTATATCCAGCACTTGGGAGCCGAGTGGCGGATCACTGAGTCAAGAGA 240
Oy      141 TCGAGACCATCTCGGCCAATGTGTAACCCCGTCTTACTATAAATAAATAATAGC 200

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DB 239 TCGAGACGACGCTGGCCAACTGATGTAATCTCATCTACTAATAAATAGAAATTAC 180
OY 201 TGGGCAATGTTGGCACAACACTTATGCTCCAGCTACTCAGAGCCGAGATTGCACTGAC 260
DB 179 TGGGATGATGTTGATGCTGCTTAAATCCAGCTACTAGGAGAGCTGAGCAGAGATCA 120
OY 261 TGAAGATCGAGAGTACGCGGAATATCAGATCAGAGAGAGAGAGAGAGAGAGAGAGAG 320
DB 119 CTGGAACCCAGAGAGTGAAGGAGCAGAGTAC---AGGCGCAGAGTGAAGCTGTCT 64
OY 321 CAAAAACAACAACAAAAA 339
DB 63 CAAAAAGAAAAAGAAAAA 45

RESULT 34
LOCUS CN351916 680 bp mRNA linear EST 16-MAY-2004
DEFINITION 17000532267149 GRN_EB Homo sapiens cDNA 5', mRNA sequence.
ACCESSION CN351916
VERSION CN351916.1 GI:47351850
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 680)
Brandenberger, R., Wei, H., Zhang, S., Lei, S., Murae, J., Fisk, G.J.,
Li, Y., Xu, C., Pang, R., Guegler, K., Rao, M.S., Mandalam, R.,
Lebowicki, J. and Stanton, L.W.
Transcriptome characterization elucidates signaling networks that
control human ES cell growth and differentiation
JOURNAL Nat. Biotechnol. 22 (6), 707-716 (2004)
PUBMED 15146197
COMMENT Contact: Brandenberger R
Regenerative Medicine
Geron Corporation
230 Constitution Drive, Menlo Park, CA 94025, USA
Tel: 650 473 8658
Fax: 650 473 7760
Email: rbrandenberger@geron.com
Insert Length: 680 Std Error: 0.00.
FEATURES
Source
1..680
location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/tissue_type="embryonic stem cells, embryoid bodies
derived from H1, H7 and H9 cells"
/clone_lib="GRN_EB"
/notes="Oligo dt primed, full-length enriched cDNA library
from embryoid body outgrowths derived from hES cell lines
H1 (p32), H7 (p29), and H9 (p26) maintained in feeder-free
conditions."
ORIGIN
Query Match 36.6%; Score 146.2; DB 8; Length 680;
Best Local Similarity 89.7%; Pred. No. 3.7e-18;
Matches 157; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

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RESULT 35
LOCUS BE379282 685 bp mRNA linear EST 21-JUL-2000
DEFINITION 601237929P1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3610063 5',
mRNA sequence.
ACCESSION BE379282
VERSION BE379282.1 GI:9324647
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 685)
NIH-MGC http://mgs.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strusberg, Ph.D.
Email: gsgabs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: L16C265 row: 1 column: 08
High quality sequence start: 4
High quality sequence stop: 634.
FEATURES
Source
1..685
location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:3610063"
/tissue_type="endometrium, adenocarcinoma cell line"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_44"
/notes="Organ: uterus; Vector: pOTB7; Site 1: XhoI; Site 2:
EcoRI; cDNA made by oligo-dt priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GGCACGAG(G). Library constructed by Ling Hong
in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-CDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."
ORIGIN
Query Match 36.6%; Score 146.2; DB 7; Length 685;
Best Local Similarity 75.3%; Pred. No. 3.7e-18;
Matches 195; Conservative 1; Mismatches 59; Indels 4; Gaps 1;

```

RESULT 36
LOCUS CN411940 805 bp mRNA linear EST 16-MAY-2004
DEFINITION 17000532275949 GRN ES Homo sapiens cDNA 5', mRNA sequence.
ACCESSION CN411940
VERSION CN411940.1 GI:47399534
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
AUTHORS Li, Y., Xu, C., Fang, R., Guejler, K., Rao, M. S., Mandalam, R.,
Lekowski, J. and Stanton, L. M.,
Transcriptome characterization elucidates signaling networks that
control human ES cell growth and differentiation
Nat. Biotechnol. 22 (6), 707-716 (2004)
JOURNAL 15146197
PUBMED
COMMENT Contact: Brandenberger R
Regenerative Medicine
Geron Corporation
230 Constitution Drive, Menlo Park, CA 94025, USA
Tel: 650 473 8658
Fax: 650 473 7760
Email: rbrandenberger@geron.com
Insert Length: 805 Std Error: 0.00.
Location/Qualifiers
1..805
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/tissue_type="embryonic stem cells, cell lines H1, H7, and
H9"
/clone_lib="GRN ES"
/note="Oligo dt primed, full-length enriched cDNA library
from undifferentiated hns cell lines H1 (p32), H7 (p29),
and H9 (p26) maintained in feeder-free conditions"

ORIGIN
Query Match 36.6%; Score 146.2; DB 8; Length 805;
Best Local Similarity 75.3%; Pred. No. 3.6e-18;
Matches 195; Conservative 1; Mismatches 59; Indels 4; Gaps 1;
81 ATGCTGTAAATCCAGCACTTGGGAGGCGGAGTGGGAGTCACTGAGTCAAGAGA 140
784 ACGCTGTAAATCCTTGACCTTTGGAGGCGGAGGAGTCACTGAGTCAAGAGA 725
141 TCGAGACCATCTGGGCAACATGTGAAACCCGCTTACTTAAATAACAAAATATAGC 200
724 TCGAGACCATCTGGGCAACATGTGAAACCCGCTTACTTAAATAACAAAATATAGC 665
201 TGGGATGTGTGACACACACTGTAGTCCAGCTACTCAGAGCCGAGATTGCAAGTAC 260
664 TGGGATGTGTGACATGCTGTAAATCCAGCTACTCAGAGGAGTCAAGAGATCA 605
261 TGAAGTGTGAGAGTGAAGCCGAATACAGATCAAGAGTGAAGTGAAGTCAAGT 320
604 CTGTGAACCCAGAGGAGTGAAGGAGGAGGAGTGAAGTGAAGTGAAGTGAAGT 549
321 CAAAAC 339
548 CAAAAC 530

RESULT 37
LOCUS AA836548 323 bp mRNA linear EST 24-FEB-1998
DEFINITION o33h04.s1 NCI_CGAP CB1 Homo sapiens cDNA clone IMAGE:1370071
similar to contains Alu repetitive element; contains element PTRS
repetitive element ;, mRNA sequence.
ACCESSION AA836548

VERSION AA836548.1 GI:2910867
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: rcs@bbs-remail.nih.gov
Tissue Procurement: Louis M. Staudt, M.D., Ph.D., David Allman,
Ph.D., Gerald Marti, M.D.
cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima
Bonaldio, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bdip/image/image.html
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 265.
Location/Qualifiers
1..323
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:1370071"
/tissue_type="germinal center B cell"
/lab_host="DH10B"
/clone_lib="NCI CGAP CB1"
/note="Vector: pT73D-PacI. Site 1: Not I; Site 2: Eco RI;
1st strand cDNA was prepared from human tonsillar cells
enriched for germinal center B cells by flow sorting
(CD20+, IgD-), provided by Dr. Louis M. Staudt (NCI), Dr.
David Allman (NCI) and Dr. Gerald Marti (CBER). cDNA
synthesis was primed with a Not I - oligo(dt) primer
[5'-TGTTACCAATCTGAAGGAGGAGGCGGCTCTTATTTT-3'
]. Double-stranded cDNA was ligated to Eco RI adaptor
(Pharmacia), digested with Not I and cloned into the Not I
and Eco RI sites of the modified pT73 vector. Library
went through one round of normalization, and was
constructed by Bento Soares and M. Fatima Bonaldio."

ORIGIN
Query Match 36.4%; Score 145.6; DB 1; Length 323;
Best Local Similarity 76.0%; Pred. No. 5.5e-18;
Matches 206; Conservative 1; Mismatches 56; Indels 8; Gaps 2;
81 ATGCTGTAAATCCAGCACTTGGGAGGCGGAGTGGGAGTCACTGAGTCAAGAGA 140
284 ATGCTGTAAATCCAGCACTTGGGAGGCGGAGGAGTGGGAGTCACTGAGTCAAG 225
141 TCGAGACCATCTGGGCAACATGTGAAACCCGCTTACTTAAATAACAAAATATAGC 200
224 TCGAGACCATCTGGGCAACATGTGAAACCCGCTTACTTAAATAACAAAATATAGC 165
201 TGGGATGTGTGACACACACTGTAGTCCAGCTACTCAGAGCCGAGATTGCAAGTAC 255
164 TGGGATGTGTGACATGCTGTAAATCCAGCTACTCAGAGGAGTCAAGAGATCA 105
256 --TGAAGTGTGAGAGTGAAGCCGAATACAGATCAAGAGTGAAGTGAAGTGAAG 312
104 CTGTGAACCCAGAGGAGTGAAGGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAG 45
313 CKCGCTCAAAAAC 343
44 CTCATCTCAAAAAC 14

RESULT 38
BQ267427/c
LOCUS 416 bp mRNA linear EST 15-JUL-2003
DEFINITION 1k07f12.x1 Human insulinoma Homo sapiens cDNA clone IMAGE:5780494
3', mRNA sequence.
ACCESSION BQ267427
VERSION BQ267427.1 GI:20492492
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
REFERENCE 1 (bases 1 to 416)
Melton, D., Brown, J., Kenty, G., Permutt, A., Lee, C., Kastner, K.,
Lemshka, I., Scaer, M., Brestelli, J., Gradwohl, G., Clifton, S.,
Hillier, L., Marra, M., Page, D., Wylie, T., Martin, J., Blistein, A.,
Schmitt, A., Weissing, B., Ritzer, E., Ronko, I., Bennett, J.,
Cardenas, M., Gibbons, M., McCann, R., Cole, R., Tsagaris, R.,
Williams, T., Jackson, Y. and Bowers, Y.
Endocrine Pancreas Consortium
Unpublished (2000)
Contact: Douglas Melton, Klaus H. Kaestner, & Hiroshi Inoue
Harvard University, Howard Hughes Medical Institute
Dept of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge,
MA 02138
Tel: 617-495-1812
Fax: 617-495-8557
Email: dmelton@bioh.harvard.edu
Library was constructed by Dr. J. Ferrer in vivo mass-excised to
pBluescript SK- by Dr. H. Inoue DNA sequencing by: Washington
University Genome Sequencing Center for information on obtaining a
clone please contact: Dr. Hiroshi Inoue (hinoue@im.wustl.edu)
Seq primer: -40UP from Gibco
High quality sequence stop: 355.
Location/Qualifiers
1..416
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5780494"
/tissue_type="insulinoma"
/lab_host="DH10B (phage-resistant)"
/clone_lib="Human Insulinoma"
/note="Organ: pancreas; Vector: pBluescript SK-; Site 1:
XhoI; Site 2: EcoRI; Constructed with lambda ZAPII system
(Stratagene) by Dr. J. Ferrer, in vivo mass-excised to
pBluescript SK- by Dr. H. Inoue following the Washington
University protocol
(http://genome.wustl.edu/est/lambda_protocol.shtml).
Please contact Hiroshi Inoue, MD/PhD for further
information on this library (Metabolism Division, Permutt
Laboratory, Washington University School of Medicine, Box
8127, 660 S Euclid Ave, St. Louis, MO 63110). Note: this
is a Washington University Pancreas EST project library."

ORIGIN
Query Match 36.4%; Score 145.4; DB 3; Length 416;
Best Local Similarity 78.0%; Pred. No. 5.7e-18;
Matches 202; Conservative 1; Mismatches 47; Indels 9; Gaps 2;

81 ATGCTGTAATCCAGCACTTCGGAGGCCAAGTGGGGGATCACTGAGGTCAAGAGA 140
|||||
DB 250 ACGCTGTATCTCTGACACTTTGGAGGCCAAGTGGGCAGATCACTGAGGTCAAGAGT 191
|||||
QY 141 TCGACACATCTGCGCAACATGTGAACCCCGCTTTACTTAATAAATCAAAAATATGCG 200
|||||
DB 190 TCGAACCAAGCTGACCAATATGATGAACCCCGCTCTCA-AAAAAATCAAAAATATGCG 132
|||||
QY 201 TGGGATGATGAGCAGACACTGTAGTCCAGCTACCTCAGAGCCGAGATTGCAATGAGC 260
|||||
DB 131 CGGGCTGTGTCAAGCACTGTATCTCCAGCTACTCAGAGGCGAGAGTTGCAATGAGC 72
|||||

QY 261 TGAAGTCCAGAGTACGCCGAATATCAGATCAGAGTGAAGAGTGAACKCCCTCT 320
|||||
DB 71 TGAAGTCCG-----GGCCATTGCACTCCAGCCTGGGCMAAAGATGAGGCTCTGTCT 20
|||||

QY 321 CAAACAACAACAACAACA 339
|||||
DB 19 CAGAGAAAAAAAAAAAAA 1
|||||

RESULT 39
A0598684
LOCUS 464 bp DNA linear GSS 08-JUN-1999
DEFINITION HS_5336_B2_E09 SP6E RPCT-11 Human Male BAC Library Homo sapiens
genomic clone Plate=912 Col=18 Row=J, genomic survey sequence.
ACCESSION A0598684
VERSION A0598684.1 GI:5029896
KEYWORDS GSS.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
REFERENCE 1 (bases 1 to 464)
Mahairas, G.G., Wallace, J.C., Smith, K., Swartzell, S., Holzman, T.,
Keller, A., Shaker, R., Furlong, J., Young, J., Zhao, S., Adams, M.D. and
Hood, L.
Sequence-tagged connectors: A sequence approach to mapping and
scanning the human genome
Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)
10449764
Contact: Mahairas GG, Wallace JC, Hood L
High Throughput Sequencing Center
University of Washington
401 Queen Anne Avenue North, Seattle, WA 98109, USA
Tel: (206) 616-3618
Fax: (206) 616-3887
Email: jwallace@u.washington.edu
Clones are derived from the human BAC library RPCT-11. For BAC
library availability, please contact Pieter de Jong
(pieterdejong.med.buffalo.edu). Clones may be purchased from
BACPAC Resources (http://bacpac.med.buffalo.edu/ordering_bac.htm)
or from Research Genetics (info@resgen.com). BAC end web Server:
http://www.hnsc.washington.edu
Plate: 912 Row: J Column: 18
Seq primer: SP6
Classes: BAC ends
High quality sequence stop: 464.
Location/Qualifiers
1..464
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/clone="Plate=912 Col=18 Row=J"
/sex="male"
/clone_lib="RPCT-11 Human Male BAC Library"
/note="Vector: pBAC3.6; Site 1: EcoRI; Site 2: EcoRI;
Male blood DNA was isolated from one randomly chosen donor
and partially digested with a combination of EcoRI and
EcoRI Methylase. Size selected DNA was cloned into the
pBAC3.6 vector at EcoRI sites"

ORIGIN
Query Match 36.4%; Score 145.4; DB 11; Length 464;
Best Local Similarity 72.6%; Pred. No. 5.6e-18;
Matches 204; Conservative 1; Mismatches 67; Indels 9; Gaps 1;

81 ATGCTGTAATCCAGCACTTCGGAGGCCAAGTGGGGGATCACTGAGGTCAAGAGA 140
|||||
DB 97 ATGCTGTAATCCAGCACTTCGGAGGCCAAGTGGGGGATCACTGAGGTCAAGAGC 156
|||||
QY 141 TCGACACATCTGCGCAACATGTGAACCCCGCTTTACTTAATAAATCAAAAATATGCG 200
|||||

Db 157 TGGAAACACAGCTGGCGAACAATGTGTGAATCCGATCTTACTATAAAAAATGCAAAAATTACG 216

Oy 201 TGGGATGATGGGACACACACTTGTAGTCCGACTACTCAGAGACCGGAGAATTGCATGTAGC 260

Db 217 TGGGCGTATGGCATGCACCTGTAAATCCAGCTACTCGGAGGCTGAGGTGGAGAAATTG 276

Oy 261 TGAATTCG-----AGAGTGAGCCGAATTCACAGATTCACAGATGAGCAGAGTGG 311

Db 277 CTTGAACCCAGAGGACAGAGGTTTGTGTGTCATTCGACTCCAGCTTGGCGACAAGAGTGG 336

Oy 312 ACKCGCTCTCAAAAACAACAACAAAACAAAAAACATA 352

Db 337 ACTCCATCTTATAAAAAAAGAAAGAAAGACTTA 377

RESULT	40
BQ269776	
LOCUS	
DEFINITION	BQ269776 518 bp mRNA linear EST 15-JUL-2003
	IK30A05.x1 HR85 islet Homo sapiens cDNA clone IMAGE:5782185 3'
	similar to SW-ALU7 HUMAN P39194 ALU SUBFAMILY SQ SEQUENCE
	CONTAMINATION WARNING ENTRY. [1] ;, mRNA sequence.

ACCESSION	BO269776	
VERSION	BO269776.1	GI:20494842
KEYWORDS	EST.	
SOURCE	Homo sapiens	(human)
ORGANISM	Homo sapiens	

REFERENCE
1 (bases 1 to 518)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eumetazoa; Ecnephronophiles; Primates; Catarrhini;
Hominae; Homo.
1 (bases 1 to 518)

REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT
1 (bases 1 to 518)	Melton, D., Brown, J., Kenty, G., Permutt, A., Lee, C., Kaestner, K., Lemishka, I., Secorce, M., Brestelli, J., Graddon, G., Clifton, S., Hillier, L., Maira, M., Pape, D., Wylie, T., Martin, J., Blisbriah, A., Schmitt, A., Theising, B., Ritzer, E., Ronko, I., Bennett, J., Cadenas, M., Gibbons M., McCann, R., Cole, R., Teagardshvili, R., Williams, T., Jackson, Y. and Bowers, Y.	Endocrine Pancreas Consortium		
Unpublished (2000)	Contact: Douglas Melton, Klaus H. Kaestner, & Hiroshi Inoue			

TITLE	Endocrine Pancreas Consortium
JOURNAL	Unpublished (2000)
COMMENT	Contact: Douglas Melton, Klaus H. Kaestner, & Hiroshi Inoue Endocrine Pancreas Consortium Harvard University, Howard Hughes Medical Institute Dept of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge MA 02138 Tel: 617-495-1812 Fax: 617-495-8557 Email: dmelton@ionh.harvard.edu Library was constructed by Dr. Hiroshi Inoue DNA sequencing by: Washington University Genome Sequencing Center For information on obtaining a clone please contact: Dr. Hiroshi Inoue (hinoue@im.wustl.edu) Possible reversed clone: similarity on wrong strand Seq primer: -400P from Gibco High quality sequence stop: 446.

FEATURES	source
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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5782185"
/tissue_type="Purified pancreatic islet"
/lab_host="MDH10B"
/clone_lib="HR85 islet"
/note="Organ: Pancreas; Vector: pBluescript SK(-); Site:1.
Noti; Site 2: XhoI; cDNA made by oligo-dT priming.
Size selected on agarose gel. Average insert size ~1kb. 5
XhoI site was destroyed after directional cloning.
Metabolized once. Contact Information: Hiroshi Inoue, MD,
School of Medicine, Box 8127, 660 South Euclid Ave., St.
Louis, MO 63110, E-mail: hinoue@mgate.wustl.edu, Tel:
314-362-1916 Fax: 314-747-2692."

```

ORIGIN

Query Match	36.4%	Score 145.4	DB 3	Length 518
Best Local Similarity	72.6%	Pred. 10.5	5.58	
Matches	201	Conservative 1	Mismatches 72	Indels 3
			Gaps 1	
QY	81	ATGCGCTGTAATCCGACGACTTTCGGAGAGCCAAAGTGGGCGGATCACTGAGGTCAAGAGA	140	
Db	62	AAGCGCTGTAATCCGACGACTTTCGGAGAGCTGAGGCAAGTGCATACCCMAAGTACGAGT	121	
QY	141	TCGAGACCATCTTGAGCCACATCGTGTAAGACCCGCTCTTTACTAAATAATACAAATAATAGC	200	
Db	122	TCAGAGCACGCTGAGCCACATGAGCAAACTCTGCTCTGTTAAATAATACAAATAATAGC	181	
QY	201	TGGGCAATGCTGGCAACAACCTGTGTGTCCTCCAGCTTCTCAGAGAGCCGAGATTGCAGTGAAC	260	
Db	182	CAGGCATATGCTGGAGGACACCTGTATCCCACTACTCTTGAGGGGGAGGTTGCAGTGAAC	241	
QY	261	TGAATGCGCAGAGTGAGCCGAAATACAGATCAAGATGAGAGAGTGAAGACACGCTCT	320	
Db	242	TGAATGTCACCACTGCGCTCTTTAGCGTGGGTGAAGAG---CAGACTCTGTCTCAAAA	298	
QY	321	CAAAAACACACACAAAAACAAAAAACCAATTAAGACA	357	
Db	299	AAAAAAAAAAAAAAAAAGCCAAAAACAAAAACAAAAA	335	

RESULT 41	DA175472/c	551 bp	mRNA	linear	EST 02-NOV-2005
LOCUS	DA175472	BRAMY2	Homo sapiens	CDNA clone	BRAMY2038827 5', mRNA
DEFINITION	sequence.				
ACCESSION	DA175472				
VERSION	DA175472.1	GI:78720791			
KEYWORDS	EST.				
SOURCE	Homo sapiens (human)				

REFERENCE
1 (bases 1 to 551)
Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominae; Homo.

REFERENCE
AUTHORS
1 (bases 1 to 551)
Kimura, K., Wakamatsu, A., Suzuki, Y., Ota, T., Nishikawa, T., Yamashita, R., Yamamoto, O., Sekine, M., Isuritani, K., Wakaguri, H., Ishii, S., Sugiyama, T., Saito, K., Isono, Y., Irie, R., Kusuhida, N., Yoneyama, T., Otsuka, R., Kanda, K., Yokoi, T., Kondo, H., Wagatsuna, M., Murakawa, K., Iehida, S., Ishibashi, T., Takahashi-Fujii, A., Tanase, T., Nagai, K., Kinuchi, H., Nakai, K., Isogai, T. and Sugano, S.
TITLE
Diversification of Transcriptional Modulation: Large-scale Identification and Characterization of Putative Alternative Promoters of Human Genes
JOURNAL
Genome Res. 16 (1), 55-65 (2006)
PUBMED
16344560
COMMENT
Contact: Takao Isogai

Helix Research Institute
2-6-7 Kazusa-Kamatari, Kisarazu, Chiba, 292-0818, Japan
Tel.: 81-438-52-3975
Fax: 81-438-52-3986
Email: ejj@chaenify.com
NEO Human cDNA project (New Energy and Industrial Technology
Developmental Organization, Japan); cDNA library construction;
Helix Research Institute (HRI); 5'-end and one pass sequencing; HRI,
Research Association for Biotechnology (RAB) and Biotechnology
Center, National Institute of Technology and Evaluation; 3'-end one
pass sequencing; RAB.

FEATURES
Source

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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="BRAMY2038827"
/tissue_type="amygdala"
/clone_lib="BRAMY2"
/note="Vector: PME18SFL3"

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ORIGIN

[illegible]

DB	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM	REFERENCE	AUTHORS
DB	144	CGAGCGTGTGTGTGTCACGCTTTGTATTCACGCTTCTCGGAGGCTGAGGCGAGGAAATTG	203						
QY	254	AGTAGAGTGAATGCGACAGTGAAGCCGAAATCAAGATCAAGATGAAGCAGAGTGAAGAC	313						
DB	204	CTTGAACTCGGAGGACGAGGTTGTCAACCAATGTGACATTCGACGCTTGCGGCGAAGGAGCAG	263						
QY	314	KCGGTCTCAAAACACACACAAACAAACAAACAAACAAACAAACAAACAAACAAACAAACAAAC	367						
DB	264	ACTCTCTCAT	317						
RESULT 43	DB330186/c								
LOCUS	DB330186	PROST2	Homo sapiens	cdna	clone	PROST2015815	3', mRNA		
DEFINITION	DB330186	PROST2	Homo sapiens	cdna	clone	PROST2015815	3', mRNA		
ACCESSION	DB330186	PROST2	Homo sapiens	cdna	clone	PROST2015815	3', mRNA		
VERSION	DB330188								
KEYWORDS	DB330188								
SOURCE	DB330188								
ORGANISM	DB330188								
REFERENCE	DB330188								
AUTHORS	DB330188								
TITLE	DB330188								
JOURNAL	DB330188								
PUBMED	DB330188								
COMMENT	DB330188								
FEATURES	DB330188								
SOURCE	DB330188								
ORIGIN	DB330188								
Query Match	36.3%	Score 145.2	DB 9	Length 498					
Best Local Similarity	72.1%	Pred. No. 6.1e-18							
Matches 189	Conservative 0	Mismatches 73	Indels 0	Gaps 0					
QY	2	CAGGTAATGACCAATGCTGCTGGCCATGCGGACCAATATTAATTAATGAACATTGTCAAGC	61						
DB	341	CATTCTCTCATGATCATATGATGATCATATTTGTAACATCATCTTGAAGAAATGCTTAATAAAA	282						
QY	62	CAGGTAATGACCAATGCTGCTGGCCATGCGGACCAATATTAATTAATGAACATTGTCAAGC	121						
DB	281	TGGCGGCGGACGCGTGTGCTGACGCTGTGAATCCAGACCTTTGGAGGCGCAAGGTTGGGTTGG	222						

QY 122 ATGACCTGAGGTGAGATGAGACCATCTCTGGCCAAACATGTAACCCCGTCTTAC 181
 DB 221 ATGACCTGAGGTGAGATGAGACCATCTCTGGCCAAACATGTAACCCCGTCTTAC 162
 QY 182 TAAATAATACAAAATATGCTGGGCGATGTGGCACACACTGTACTCCAGCTACTCAGA 241
 DB 161 TAAATAATACAAAATATGCTGGGCGATGTGGCACACACTGTACTCCAGCTACTCAGA 102
 QY 242 GCCGAGATTCGACTGAGCTGA 263
 DB 101 GTCAGAGACTGGGTTCAATTGA 80

RESULT 44
 DA714821/c
 LOCUS DA714821 NT2R12 Homo sapiens cDNA clone NT2R12021923 5', mRNA
 DEFINITION sequence.
 ACCESSION DA714821
 VERSION DA714821.1 GI:82370722
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo
 1 (bases 1 to 515)
 Kimura, K., Wakamatsu, A., Suzuki, Y., Ota, T., Nishikawa, T., Yamashita, R., Yamamoto, J., Sekine, M., Tsuritani, K., Wakaguri, H., Ishii, S., Sugiyama, T., Saito, K., Isono, Y., Irie, R., Kishida, N., Yonekawa, T., Otsuka, R., Kanda, K., Yokoi, T., Kondo, H., Wagatsuma, M., Tanakawa, K., Ishida, S., Ishihashi, T., Takahashi, F., Aki, T., Tanase, T., Nagai, K., Kikuchi, H., Nakai, K., Isogai, T. and Sugano, S.
 Divergence of Transcriptional Modulation: Large-scale Identification and Characterization of Putative Alternative Promoters of Human Genes
 JOURNAL Genome Res. 16 (1), 55-65 (2006)
 PUBMED 16344560
 COMMENT Contact: Takao Isogai
 FUJ Project (HRI Team)
 Helix Research Institute
 2-6-7 Kazusa-Kamatari, Kisarazu, Chiba, 292-0818, Japan
 Tel: 81-438-52-3975
 Fax: 81-438-52-3986
 Email: fuj-cdna@hri.fujitsu.com
 NEBO human cDNA project (New Energy and Industrial Technology Developmental Organization, Japan); cDNA library construction: Helix Research Institute (HRI); 5'-end one pass sequencing: HRI, Research Association for Biotechnology (RAB) and Biotechnology Center, National Institute of Technology and Evaluation; 3'-end one pass sequencing: RAB.
 Location/Qualifiers
 1..515
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="NT2R12021923"
 /cell_type="leukocarcinoma"
 /note="Vector: pME18SFL3; majorly NT2 neuron; mRNA from NT2 neuronal precursor cells treated 2-weeks mitotic inhibitor after 5-weeks retinoic acid (RA) induction."

ORIGIN
 Query Match 36.3%; Score 145.2; DB 9; Length 515;
 Best Local Similarity 78.4%; Pred. No. 6e-18; Indels 0; Gaps 0;
 Matches 174; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

QY 81 ATGCTGTAATCCAGCACTTCGGAGGCGCAAGTGGGGCGATCACTGAGGTCAAGGA 140
 DB 226 ACGCTATATATCCAGCACTTCGGAGGCGCGGTGATCACTGAGGTCAAGGA 167

QY 141 TGGAGACCATCTGAGCCAGATGTAACCCCGTCTTTCTAATAAATAAATAGC 200
 DB 166 TCAAGACCACTCTGGCCAAACATGTAACCCCATCTCTAATAAATAAATAGC 107
 QY 201 TGGGCAATGTGGGACACACCTGTATGTCAGCTACTCAGAGCCGAGATTGCAATGAC 260
 DB 106 TGGGCAATGTGGGACACACCTGTATGTCAGCTACTCAGAGCCGAGATTGCAATGAC 47
 QY 261 TGAATGCGAGAGTGAACCGAATTCACATTCACAGTGA 302
 DB 46 CAAGATGCAACACTGCATTCGAGCTGGGTGAAGAGCAAG 5

RESULT 45
 AQ314853/c
 LOCUS AQ314853 555 bp DNA linear GSS 04-MAY-1999
 DEFINITION RPI11-96D8-TV RPI1-11 Homo sapiens genomic clone RPI1-11-96D8, genomic survey sequence.
 ACCESSION AQ314853
 VERSION AQ314853.1 GI:4046316
 KEYWORDS GSS.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo
 1 (bases 1 to 555)
 Adams, M.D., Roundly, S.D., Zhao, S., Baas, S., Linher, K., Golden, K., Berry, K., Granger, D., Sun, E., Wible, C., de Jong, P. and Venter, J.C.
 Use of human BAC End Sequences for Sequence-Ready Map Building
 Unpublished (1998)
 Other GSSs: RPI11-96D8-TV
 Contact: Shaying Zhao, William Nierman, Mark Adams
 Department of Eukaryotic Genomics
 The Institute for Genomic Research
 9712 Medical Center Dr., Rockville, MD 20850
 Tel: 301 838 0200
 Fax: 301 838 0208
 Email: hbe@tigr.org
 Clones are derived from the human BAC library RPI1-11. For BAC library availability, please contact Pieter de Jong (pieter@dejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (<http://bacpac.med.buffalo.edu/ordering>) or from Research Genetics (info@resgen.com). BAC end search page: http://www.tigr.org/tcd/humgen/bac_end_search/bac_end_search.html
 Seq primer: T7
 Class: BAC ends.
 Location/Qualifiers
 1..555
 /organism="Homo sapiens"
 /mol_type="genomic DNA"
 /db_xref="GDB:7536559"
 /db_xref="taxon:9606"
 /clone="RPI1-11-96D8"
 /sex="Male"
 /cell_type="Lymphocytes"
 /clone_lib="RPI1-11"
 /note="Vector: pBAC3.6; Site_1: EcoRI; Site_2: EcoRI; RPI11 Human Male BAC Library"

ORIGIN
 Query Match 36.3%; Score 145.2; DB 11; Length 555;
 Best Local Similarity 73.4%; Pred. No. 5.9e-18;
 Matches 204; Conservative 1; Mismatches 59; Indels 14; Gaps 1;

QY 84 CCTGTAATCCAGCACTTCGGAGGCGCAAGTGGGGCGATCACTGAGGTCAAGATCG 143
 DB 374 CCTGTAATCCAGCACTTCGGAGGCGCGAGCGGATCACTGAGGTCAAGATTCG 315
 QY 144 AGACCATCTGAGCCAAACATGTTGAACCCCTCTTTCTAATAAATAAATAGCTGG 203
 DB 314 AGACCATCTGAGCCAAACATGTTGAACCACTCTCTAATAAATAAATAGCTGA 255

QY 204 GCATGTGGACACACTGTAGTCCAGTACTCAGAGCCGAGATGTCAGTGA 263
 DB 254 GCGTGGTGAACGACCTTATCTCCAGTACTCCGAGGCTGAGCAGAGATGCTT 195
 QY 254 GATCCGAG-----AGTACGCCGAATATCAGATCAGAGTGAAGCAGATG 309
 DB 194 GAACCCAGAGGCGGAGTTGCAGTAGCCGAGATCAGCCCACTGATTCAGTCAAG 135
 QY 310 AGACCCCGTCTCAAAAACAACAAAAA 347
 DB 134 AGACTCGTCTCAAAAACAAAAAGTAAATTAA 97
 RESULT 46
 CB309712 591 bp mRNA linear EST 26-MAR-2004
 LOCUS CB309712
 DEFINITION AGENCOURT_11828537 NICHD_Rh_Ov1 Macaca mulatta cDNA clone
 IMAGE:6913528 5', mRNA sequence.
 ACCESSION CB309712
 VERSION CB309712
 KEYWORDS EST
 SOURCE CB309712.1 GI:28832422
 ORGANISM Macaca mulatta (rhesus monkey)
 Macaca mulatta
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Cercopithecoidea; Cercopitheciinae; Macaca.
 1 (bases 1 to 591)
 NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap.
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 Unpublished (1997)
 Contact: Daniela S. Gerhard, Ph.D.
 Office of Cancer Genomics / NIH
 National Cancer Institute / NIH
 Bldg. 31 Rm10A07 Bethesda, MD 20892
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: Dr. Eliot Spindel
 cDNA Library Preparation: CLONTECH
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNLT)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: NCI-CCAP clone distribution information can be
 found through the I.M.A.G.E. Consortium/ILNLT at:
 http://image.llnl.gov
 Plate: L10M3154 row: m column: 15
 High quality sequence stop: 454.
 Location/Qualifiers
 1..591
 /organism="Macaca mulatta"
 /mol_type="mRNA"
 /db_xref="taxon:9544"
 /clone="IMAGE:6913528"
 /tissue_type="Ovary"
 /lab_host="DH10B (phage-resistant)"
 /clone_1lb="NICHD Rh_Ov1"
 /note="Organ: ovary; Vector: pDNR-LIB; Site_1: Sfi I;
 Site_2: Sfi I; cloned unidirectionally. Primer: Oligo dt.
 Average insert size 1.0-4.0 Kb. Tissue pooled from
 pre-pubertal, post pubertal sn menopausal monkeys.
 Constructed by Clontech. Note: this is a NICHD library."

ORIGIN
 Query Match 36.3%; Score 145.2; DB 4; Length 591;
 Best Local Similarity 84.8%; Pred. No. 5.9e-18;
 Matches 162; Conservative 0; Mismatches 29; Indels 0; Gaps 0;

QY 81 ATGCTGTATATCCAGCACTTCGAGAGCCCAAGTGGAGTCACTGAGTCAAGAGA 140
 DB 287 ATGCTGTATATCCAGCACTTCGAGAGCCCAAGTGGAGTCACTGAGTCAAGAGA 346
 QY 141 TCGAGACATCTGGCCCAATGTTGAAACCCGCTTTTACTAAATAACAAAAATAGC 200
 DB 347 TCAAGACCACTGGCCCAATGTTGAAACCCCACTTTACTAAATAACAAAAATAGC 406

QY 201 TGGCATGTGGACACACTGTAGTCCAGTACTCAGAGCCGAGATGTCAGTGA 260
 DB 407 TGGCATGTGGACACACTGTATATCCAGTACTCAGAGCTTGAAGCAGAGATCC 466
 QY 261 TGAGATCCGAG 271
 DB 467 CTGGAACCCAG 477

RESULT 47
 DA408951 649 bp mRNA linear EST 07-NOV-2005
 LOCUS DA408951
 DEFINITION DA408951 BRTHA3 Homo sapiens cDNA clone BRTHA3015134 5', mRNA
 sequence.
 ACCESSION DA408951
 VERSION DA408951
 KEYWORDS EST.
 SOURCE DA408951.1 GI:81121486
 ORGANISM Homo sapiens (human)
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.
 1 (bases 1 to 649)
 Kimura,K., Wakamatsu,A., Suzuki,Y., Ota,T., Nishikawa,T.,
 Yamashita,R., Yamamoto,J., Sekine,M., Tsuritani,K., Wakaguri,H.,
 Ishii,S., Sugiyama,T., Saito,K., Isono,Y., Irie,R., Kushida,N.,
 Yoneyama,T., Otsuka,R., Kanda,K., Yokoi,T., Kondo,H., Wagatsuma,M.,
 Murakawa,K., Ishida,S., Ishibashi,T., Takahashi-Fujii,A.,
 Tanase,T., Nagai,K., Kikuchi,H., Nakai,K., Isogai,T. and Sugano,S.
 Diversification of Transcriptional Modulation: large-scale
 Identification and Characterization of Putative Alternative
 Promoters of Human Genes
 Genome Res. 16 (1), 55-65 (2006)
 16344560

TITLE

JOURNAL PUBLISHED
 COMMENT Contact: Takao Isogai
 FJI Project (HRI Team)
 Helix Research Institute
 2-6-7 Kazusa-Kamatari, Kisarazu, Chiba, 292-0818, Japan
 Tel: 81-438-52-3975
 Fax: 81-438-52-3986
 Email: fji-cdna@nifty.com
 NEDO human cDNA project (New Energy and Industrial Technology
 Developmental Organization, Japan); cDNA library construction:
 Helix Research Institute (HRI); 5'-end one pass sequencing: HRI,
 Research Association for Biotechnology (RAB) and Biotechnology
 Center, National Institute of Technology and Evaluation; 3'-end one
 pass sequencing: RAB.

FEATURES
 source Location/Qualifiers
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 /organism="Homo sapiens"
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 /db_xref="taxon:9606"
 /clone="BRTHA3015134"
 /tissue_type="thalamus"
 /clone_1lb="BRTHA3"
 /note="Vector: pME18SFJ3"

ORIGIN

Query Match 36.3%; Score 145.2; DB 9; Length 649;
 Best Local Similarity 70.1%; Pred. No. 5.8e-18;
 Matches 195; Conservative 0; Mismatches 83; Indels 0; Gaps 0;

QY 26 CATGGAAACCAATATTAATTAAGACATTGTGAGCCAGGAGTACACTGCTGAATGC 85
 DB 273 CCGGACCAACTCCCTCTATTAAGAAATAGAAATAGGCGCAAGCAGATGCTCATGTC 332
 QY 86 TGTATCCAGCACTTGGGAGGCGCAAGTGGCGGATCACTGAGTCAAGATGAG 145
 DB 333 TGTATCTCAGCACTTGGGAGGCTGAGTGAAGATCACTTGAAGTCAAGAACTTCAG 392
 QY 146 ACCATCTGGCCCAATGTTGAAACCCGCTTTTACTAAATAACAAAAATAGTGGC 205
 DB 393 ACCAGCCCGGCAATGTTGCAAAACCCGCTCTCTACTAAATAACAAAAATAGTGGC 452

QY 206 ATGTGGACACACCTGTAAGTCCAGCTACTCAGAGCCGAGATTGCAAGTACAGTACA 265
 DB 453 GTGGTACACACACCTGTAATCCAGCTACTGAGGAGCTGACAGAGATTGCTTGA 512
 QY 266 TCCGAGAGTGGAGCCGAATCAGATCAGAGTACAGTACG 303
 DB 513 GCCGAGAGGCGGAGGTTGACGTACACCGAGATTATGC 550

RESULT 48
 C2459725 849 bp DNA linear GSS 20-OCT-2005
 LOCUS MCF748c16T Human MCF7 breast cancer cell line library (MCF7_1)
 DEFINITION Homo sapiens genomic clone MCF7_48c16, genomic survey sequence.
 ACCESSION C2459725
 VERSION C2459725.1 GI:77937953
 KEYWORDS GSS.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 REFERENCE 1 (bases 1 to 849)
 AUTHORS Volik S.V., Raphael B.J., Huang G.-Q., Murnane J., Brehner J.H.,
 Bajsarowicz K., Paris P., Tao Q., Kombe D., Lapuk A.V., Kuo W.-L.,
 Shagin D.A., Shagina I.A., Magrane G., Gray J.W., Jan F.-C., de
 Jong P., Pevzner P. and Collins C.
 TITLE Decoding the genomic architecture and high throughput detection of
 fusion transcripts in breast cancer cell lines: implications for a
 tumor genome project
 JOURNAL Unpublished (2005)
 COMMENT Contact: Volik SV
 Colin Collins' lab
 UCSF Comprehensive Cancer Center
 UCSF Box 0808, San Francisco, CA 94143-0808, USA
 Tel: 415 502 7066
 Fax: 415 502 5665
 Email: svolik@cc.ucsf.edu
 This clone is available from Amplicon Express
 http://www.genomex.com
 Class: BAC ends.

FEATURES
 source
 1. 849
 /location/Qualifiers
 /organism="Homo sapiens"
 /mol_type="genomic DNA"
 /db_xref="taxon:9606"
 /clone="MCF7_48c16"
 /sex="female"
 /clone_lib="Human MCF7 breast cancer cell line library
 (MCF7_1)"
 /note="Vector: pECBAC1; Site_1: HindIII; This library was
 constructed from MCF7 breast cancer cell line by Amplicon
 Express (http://www.genomex.com) using their standard
 procedure."

ORIGIN
 Query Match 36.3%; Score 145.2; DB 13; Length 849;
 Best Local Similarity 73.4%; Pred. No. 5.5e-18;
 Matches 204; Conservative 1; Mismatches 59; Indels 14; Gaps 1;

QY 264 GATGCGAG-----AGTGAGCCGAATCAGATCAGAGTACAGAGTACAGAGTACAG 309
 DB 250 GAACCCAGAGAGCGGAGGTTGCACTAGCCGAGATCAGCCACATTCACATTCAGTCA 309
 QY 310 AGACKCCGCTCAAAAAACAACAACAAAAA 347
 DB 310 AGACTCCGCTCAAAAAAAAAAAAAAGTAATTA 347

RESULT 49
 DA112846 550 bp mRNA linear EST 03-NOV-2005
 LOCUS DA112846 BRACE3 Homo sapiens CDNA clone BRACE3030866 5', mRNA
 DEFINITION sequence.
 ACCESSION DA112846
 VERSION DA112846.1 GI:79196234
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 REFERENCE 1 (bases 1 to 550)
 AUTHORS Kimura K., Wakamatsu A., Suzuki Y., Ota T., Nishikawa T.,
 Yamashita R., Yamamoto J., Sekine M., Tsutitani K., Wakaguri H.,
 Ishii S., Sugiyama T., Saito K., Isono Y., Irie R., Kushida N.,
 Yoneyama T., Otsuka R., Kanda K., Yokoi T., Kondo H., Wagatsuna M.,
 Murakawa K., Ishida S., Ishidashi T., Takahashi Fujii A.,
 Tanase T., Nagai K., Kikuchi H., Nakai K., Isogai T. and Sugano S.
 TITLE Diversification of Transcriptional Modulation: large-scale
 identification and characterization of Putative Alternative
 Promoters of Human Genes
 JOURNAL Genome Res. 16 (1), 55-65 (2006)
 COMMENT PubMed
 Contact: Takao Isogai
 FLJ Project (HRI Team)
 Helix Research Institute
 2-6-7 Kazusa-Kamatari, Kisarazu, Chiba, 292-0818, Japan
 Tel: 81-438-52-3975
 Fax: 81-438-52-3986
 Email: flj-cdn@hriity.com
 NEBO human cDNA project (New Energy and Industrial Technology
 Developmental Organization, Japan); cDNA library construction:
 Helix Research Institute (HRI); 5'-end one pass sequencing: HRI,
 Research Association for Biotechnology (RAB) and Biotechnology
 Center, National Institute of Technology and Evaluation; 3'-end one
 pass sequencing: RAB.
 FEATURES
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 /note="Vector: pME18SFL3"

ORIGIN
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 Best Local Similarity 76.5%; Pred. No. 6.5e-18;
 Matches 218; Conservative 1; Mismatches 56; Indels 10; Gaps 3;

QY 259 GCTGATGCGACAGTGTGAGCCGAAATCAGAGATCAGAGATGAGAGAGTGTGAGACCCGT 318
 DB 430 GCCGAGATGCA-----CCACTGCATCTTCCAGCTGTGGGCAACGACGACGACTCTGT 481
 QY 319 CTCAAAAACACACACAAAAAACAAAAACATTAAGACATTGTCC 363
 DB 482 CTCAAAAACACAAAAAACAAAAAACACACGACGAAACCATGTGTCC 526

RESULT 50

DA198015/c

DA198015 555 bp mRNA linear EST 30-OCT-2005
 LOCUS DA198015 BRAWH2 Homo sapiens cDNA clone BRAWH2000862 5', mRNA
 DEFINITION

Sequence.

ACCESSION DA198015

VERSION DA198015.1 GI:78309617

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;

Homnidae; Homo.

REFERENCE 1 (bases 1 to 555)

Kimura,K., Wakamatsu,A., Suzuki,Y., Ota,T., Nishikawa,T.,

Yamashita,R., Yamamoto,J., Sekine,M., Tsuritani,K., Wakaguri,H.,

Ishii,S., Sugiyama,T., Saito,K., Isono,Y., Irie,R., Kishida,N.,

Yoneyama,T., Otsuka,R., Kanda,K., Yokoi,T., Kondo,H., Wagatsuma,M.,

Murakawa,K., Ishida,S., Ishibashi,T., Takahashi-Fujii,A.,

Tanase,T., Nagai,K., Kikuchi,K., Nakai,K., Isogai,T. and Sugano,S.

Diversification of Transcriptional Modulation: large-scale

Identification and Characterization of Putative Alternative

Promoters of Human Genes

Genome Res. 16 (1), 55-65 (2006)

JOURNAL PUBMED

16344560

COMMENT Contact: Takao Isogai

FLJ Project (HRI Team)

Helix Research Institute

2-6-7 Kazusa-Kamatari, Kisarazu, Chiba, 292-0818, Japan

Tel: 81-438-52-3975

Fax: 81-438-52-3986

Email: flj-cdna@nifty.com

NEDO human cDNA project (New Energy and Industrial Technology

Developmental Organization, Japan); cDNA library construction:

Helix Research Institute (HRI); 5'-end one pass sequencing: HRI,

Research Association for Biotechnology (RAB) and Biotechnology

Center, National Institute of Technology and Evaluation; 3'-end one

pass sequencing: RAB.

FEATURES location/Qualifiers

SOURCE

1..555

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="BRAWH2000862"

/tissue_type="brain"

/clone_id="BRAWH2"

/note="Vector: pME18SFL3"

ORIGIN

Query Match 36.3%; Score 145; DB 9; Length 555;

Best Local Similarity 88.7%; Pred. No. 6.5e-18;

Matches 157; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 81 ATGCGTGAATCCAGCACTTGGGAGGCCAAGTGGCGGATCACTGAGGTCAAGAGA 140

DB 487 ATGCGTGAATCCAGCACTTGGGAGGCCAAGTGGCGGATCACTGAGGTCAAGAGT 428

QY 141 TCGAGACCATCTGGCCCAACATGTGAACCCCGTCTTACTTAATAAATCAAAAATATGCG 200

DB 427 TCGAACCAGCTGGCCCAACATGTGAACCCCGTCTTACTTAATAAATCAAAAATATGCG 368

QY 201 TGGGCAATGTGGCAACACCTGTAGTCCAGCTACTCAGAGCCGAGATTGCACTG 257

DB 367 CCGGATGGTGGCGACACCTGTATCCAGCTACTCGAAGCTGAGGACAGAGAG 311

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 Job time : 4693 secs

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GenCore version 5.1.9
Copyright (c) 1993 - 2006 Bioceleration Ltd.

On nucleic - nucleic search, using sw model

Run on: July 17, 2006, 20:33:34 ; Search time 157 Seconds
(without alignments)
4767.156 Million cell updates/sec

Title: SEQ1-47502C

Perfect score: 399.6

Sequence: 1 ccagctactcagccatgctgc.....catgcagcagaccacaaag 400

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1403666 seqs, 935554401 residues

Total number of hits satisfying chosen parameters: 2807332

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 150 summaries

Database :

Issued Patents NA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Query Length	ID	Description
1	159.6	39.9	601	US-09-949-016-192208	Sequence 192208, A
2	158.4	39.6	10980	US-09-949-016-14471	Sequence 14471, A
3	158.4	39.6	15564	US-09-949-016-12783	Sequence 12783, A
4	158.4	39.6	90776	US-09-949-016-17230	Sequence 17230, A
5	154.4	38.6	44789	US-09-949-016-13909	Sequence 13909, A
6	154.4	38.6	173791	US-09-949-016-12542	Sequence 12542, A
7	154.4	38.6	173791	US-09-949-016-17302	Sequence 17302, A
8	153.6	38.4	71574	US-09-949-016-15580	Sequence 15580, A
9	153.4	38.4	152524	US-09-949-016-12683	Sequence 12683, A
10	153.4	38.4	152524	US-09-949-016-13194	Sequence 13194, A
11	153.8	38.2	40091	US-09-949-016-16011	Sequence 16011, A
12	152	38.0	601	US-09-949-016-69587	Sequence 69587, A
13	151.4	37.9	17050	US-09-949-016-12784	Sequence 12784, A
14	151.4	37.9	17050	US-09-949-016-13680	Sequence 13680, A
15	150.8	37.7	20099	US-09-949-016-13084	Sequence 13084, A
16	150.4	37.6	19566	US-09-949-016-12096	Sequence 12096, A
17	150.4	37.6	19567	US-09-949-016-14114	Sequence 14114, A
18	149.6	37.4	455726	US-09-949-016-14157	Sequence 14157, A
19	149.6	37.4	481115	US-09-949-016-11940	Sequence 11940, A
20	149.4	37.4	157862	US-09-949-016-16723	Sequence 16723, A
21	149	37.3	228896	US-09-949-016-17127	Sequence 17127, A
22	148.8	37.2	77994	US-09-949-016-12517	Sequence 12517, A
23	148.8	37.2	77994	US-09-949-016-16021	Sequence 16021, A

24	148.6	37.2	8100	US-09-949-016-13460	Sequence 13460, A
25	148.6	37.2	8100	US-09-949-016-12461	Sequence 12461, A
26	148	37.0	601	US-09-949-016-122016	Sequence 122016, A
27	147.8	37.0	601	US-09-949-002-2953	Sequence 2953, Ap
28	147.8	37.0	601	US-09-949-002-2954	Sequence 2954, Ap
29	147.8	37.0	601	US-09-949-002-4465	Sequence 4465, Ap
30	147.8	37.0	601	US-09-949-002-4466	Sequence 4466, Ap
31	147.8	37.0	60595	US-09-949-002-650	Sequence 650, App
32	147.8	37.0	60595	US-09-949-002-706	Sequence 706, App
33	147.8	37.0	86945	US-09-949-016-13849	Sequence 13849, A
34	147.8	37.0	86945	US-09-949-016-13850	Sequence 13850, A
35	147.8	37.0	86945	US-09-949-016-13851	Sequence 13851, A
36	147.8	37.0	86945	US-09-949-016-13852	Sequence 13852, A
37	147.8	37.0	86945	US-09-949-016-13853	Sequence 13853, A
38	147.8	37.0	86945	US-09-949-016-13854	Sequence 13854, A
39	147.8	37.0	86945	US-09-949-016-13855	Sequence 13855, A
40	147.8	37.0	86945	US-09-949-016-13856	Sequence 13856, A
41	147.8	37.0	86945	US-09-949-016-13857	Sequence 13857, A
42	147.8	37.0	86945	US-09-949-016-13858	Sequence 13858, A
43	147.6	36.9	9798	US-09-949-016-14022	Sequence 14022, A
44	147.6	36.9	9801	US-09-949-016-12819	Sequence 12819, A
45	147.6	36.9	11820	US-09-936-271C-56	Sequence 56, App1
46	147.4	36.9	26967	US-09-949-016-12926	Sequence 12926, A
47	147.4	36.9	35104	US-09-949-016-15831	Sequence 15831, A
48	147.4	36.9	55114	US-09-949-016-16792	Sequence 16792, A
49	147.4	36.9	115955	US-09-949-016-17565	Sequence 17565, A
50	147.2	36.8	301828	US-09-949-016-13969	Sequence 13969, A
51	147	36.8	601	US-09-949-016-41521	Sequence 41521, A
52	146.6	36.7	161607	US-09-949-016-12210	Sequence 12210, A
53	146.4	36.6	228896	US-09-949-016-17127	Sequence 17127, A
54	146.2	36.6	50775	US-09-949-016-12858	Sequence 12858, A
55	146.2	36.6	50776	US-09-949-016-15438	Sequence 15438, A
56	146	36.5	122772	US-09-949-016-14132	Sequence 14132, A
57	145.8	36.5	27577	US-09-949-016-12407	Sequence 12407, A
58	145.8	36.5	27577	US-09-949-016-14545	Sequence 14545, A
59	145.8	36.5	101128	US-09-949-016-14291	Sequence 14291, A
60	145.6	36.4	66988	US-09-949-016-11942	Sequence 11942, A
61	145.6	36.4	66989	US-09-949-016-16063	Sequence 16063, A
62	145.6	36.4	87774	US-09-949-016-12821	Sequence 12821, A
63	145.4	36.4	21168	US-09-949-016-12643	Sequence 12643, A
64	145.4	36.4	24546	US-09-949-016-16320	Sequence 16320, A
65	145.4	36.4	77586	US-09-949-016-13220	Sequence 13220, A
66	145.4	36.4	77586	US-09-949-016-13221	Sequence 13221, A
67	145.4	36.4	237241	US-09-949-016-16101	Sequence 16101, A
68	145.2	36.3	601	US-09-949-016-152074	Sequence 152074, A
69	145.2	36.3	601	US-09-949-016-152147	Sequence 152147, A
70	145.2	36.3	601	US-09-949-016-152220	Sequence 152220, A
71	145.2	36.3	601	US-09-949-016-152293	Sequence 152293, A
72	145.2	36.3	601	US-09-949-016-159379	Sequence 159379, A
73	145.2	36.3	601	US-09-949-016-159452	Sequence 159452, A
74	145.2	36.3	601	US-09-949-016-159525	Sequence 159525, A
75	145.2	36.3	601	US-09-949-016-159588	Sequence 159588, A
76	145.2	36.3	52667	US-09-949-016-14098	Sequence 14098, A
77	145.2	36.3	32665	US-09-949-016-12019	Sequence 12019, A
78	145.2	36.3	78846	US-09-949-016-12396	Sequence 12396, A
79	145.2	36.3	78846	US-09-949-016-12792	Sequence 12792, A
80	145.2	36.3	78846	US-09-949-016-12792	Sequence 12792, A
81	145.2	36.3	78846	US-09-949-016-12793	Sequence 12793, A
82	145.2	36.3	78850	US-09-949-016-16013	Sequence 16013, A
83	145.2	36.3	78850	US-09-949-016-16014	Sequence 16014, A
84	145.2	36.3	78850	US-09-949-016-16015	Sequence 16015, A
85	145.2	36.3	78850	US-09-949-016-16016	Sequence 16016, A
86	145.2	36.3	78850	US-09-949-016-16201	Sequence 16201, A
87	145.2	36.3	78850	US-09-949-016-16202	Sequence 16202, A
88	145.2	36.3	78850	US-09-949-016-16203	Sequence 16203, A
89	145.2	36.3	78850	US-09-949-016-16204	Sequence 16204, A
90	145.2	36.3	81001	US-09-750-580-1	Sequence 1, App1
91	145.2	36.3	119032	US-09-949-016-12160	Sequence 12160, A
92	145.2	36.3	119032	US-09-949-016-17268	Sequence 17268, A
93	145	36.3	601	US-09-949-016-15589	Sequence 15589, A
94	145	36.3	41965	US-09-949-016-13067	Sequence 13067, A
95	145	36.3	87752	US-09-949-016-16807	Sequence 16807, A
96	144.8	36.2	601	US-09-949-016-196728	Sequence 196728, A

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C 97 144.8 36.2 19091 3 US-09-949-016-15805 Sequence 15805, A
C 98 144.8 36.2 43896 3 US-09-949-016-14942 Sequence 14942, A
C 99 144.8 36.2 84252 3 US-09-949-016-17315 Sequence 17315, A
C 100 144.8 36.2 246230 3 US-09-949-016-17019 Sequence 17019, A
C 101 144.8 36.2 246230 3 US-09-949-016-17020 Sequence 17020, A
C 102 144.8 36.2 246230 3 US-09-949-016-17021 Sequence 17021, A
C 103 144.8 36.2 246230 3 US-09-949-016-17022 Sequence 17022, A
C 104 144.6 36.2 601 3 US-09-949-016-19542 Sequence 19542, A
C 105 144.6 36.2 14961 3 US-09-949-016-13400 Sequence 13400, A
C 106 144.6 36.2 36907 3 US-09-949-016-12633 Sequence 12633, A
C 107 144.6 36.2 36913 3 US-09-949-016-15585 Sequence 15585, A
C 108 144.6 36.2 47263 3 US-09-949-016-17578 Sequence 17578, A
C 109 144.6 36.2 47284 3 US-09-949-016-17029 Sequence 17029, A
C 110 144.6 36.2 57392 3 US-09-949-016-12070 Sequence 12070, A
C 111 144.6 36.2 57402 3 US-09-949-016-13293 Sequence 13293, A
C 112 144.6 36.2 61124 3 US-09-949-016-11914 Sequence 11914, A
C 113 144.6 36.2 61140 3 US-09-949-016-15771 Sequence 15771, A
C 114 144.6 36.2 131254 3 US-09-949-016-13734 Sequence 13734, A
C 115 144.6 36.2 157032 3 US-09-949-016-16502 Sequence 16502, A
C 116 144.6 36.2 346112 3 US-09-949-016-13165 Sequence 13165, A
C 117 144.6 36.1 28717 3 US-09-949-016-16284 Sequence 16284, A
C 118 144.4 36.1 48039 3 US-09-949-016-15990 Sequence 15990, A
C 119 144.4 36.1 60376 3 US-09-949-016-12423 Sequence 12423, A
C 120 144.4 36.1 68702 3 US-09-949-016-16328 Sequence 16328, A
C 121 144.2 36.1 601 3 US-09-949-016-16281 Sequence 16281, A
C 122 144.2 36.1 601 3 US-09-949-016-202637 Sequence 202637, A
C 123 144.2 36.1 33155 3 US-09-949-016-16421 Sequence 16421, A
C 124 144.2 36.1 133358 3 US-09-949-016-16964 Sequence 16964, A
C 125 144.2 36.1 133360 3 US-09-949-016-12651 Sequence 12651, A
C 126 144.2 36.1 199471 3 US-09-949-016-14083 Sequence 14083, A
C 127 144.2 36.1 312474 3 US-09-949-016-17434 Sequence 17434, A
C 128 144.2 36.0 601 3 US-09-949-016-32649 Sequence 32649, A
C 129 144.2 36.0 601 3 US-09-949-016-11218 Sequence 11218, A
C 130 144.2 36.0 601 3 US-09-949-002-2852 Sequence 2852, A
C 131 144.2 36.0 601 3 US-09-949-002-4464 Sequence 4464, A
C 132 144.2 36.0 15615 3 US-09-949-016-17221 Sequence 17221, A
C 133 144.2 36.0 44166 3 US-09-949-016-15829 Sequence 15829, A
C 134 144.2 36.0 54180 3 US-09-949-016-14894 Sequence 14894, A
C 135 143.8 36.0 601 3 US-09-949-016-57694 Sequence 57694, A
C 136 143.8 36.0 601 3 US-09-949-016-57695 Sequence 57695, A
C 137 143.8 36.0 601 3 US-09-949-016-57696 Sequence 57696, A
C 138 143.8 36.0 7410 3 US-09-949-016-748 Sequence 748, A
C 139 143.8 36.0 7421 3 US-09-949-016-749 Sequence 749, A
C 140 143.8 36.0 28283 3 US-09-949-016-15248 Sequence 15248, A
C 141 143.8 36.0 68874 3 US-09-949-016-13361 Sequence 13361, A
C 142 143.8 36.0 68874 3 US-09-949-016-13049 Sequence 13049, A
C 143 143.8 36.0 74804 3 US-09-949-016-15118 Sequence 15118, A
C 144 143.8 36.0 116955 3 US-09-949-016-17565 Sequence 17565, A
C 145 143.8 36.0 236474 3 US-09-949-016-13418 Sequence 13418, A
C 146 143.8 36.0 422592 3 US-09-949-016-14182 Sequence 14182, A
C 147 143.6 35.9 36952 3 US-09-949-016-14786 Sequence 14786, A
C 148 143.6 35.9 46794 3 US-09-949-016-12399 Sequence 12399, A
C 149 143.6 35.9 89584 3 US-09-949-016-17068 Sequence 17068, A
C 150 143.4 35.9 601 3 US-09-949-016-30346 Sequence 30346, A

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ALIGNMENTS

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RESULT 1
US-09-949-016-192208/c
; Sequence 192208, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768

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; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 192208
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-192208

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Query Match
Best Local Similarity 39.6%; Score 159.6; DB 3; Length 601;
Matches 216; Conservative 2; Mismatches 56; Indels 14; Gaps 1;

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QY 81 ATGCGTGTATCCAGACACTTGGGAGCCGCAAGTGGCGGATCACTGAGTCAAGAGA 140
DB 565 ACGCTGTATCCAGACACTTGGGAGCCGCAAGTGGCGGATTTCTGAGTCAAGAGT 506
QY 141 TCGAGACATCTGGCCACATGTGTAACCCGCTTTACTAAATAACAAATAATAGC 200
DB 505 TCAAGATCAGCTTGGCCACATGTGTAACCCGCTTTACTAAATAATCAAAATAGC 446
QY 201 TGGGATGTGGGACACACCTGTAGTCCAGACTACAGAGCCGAGATTGCAATGAC 260
DB 445 TGGGATGTGGGACGAGGAGCTGTAGTCCAGACTACGAGGCTGAGGAGAAATGCG 386
QY 261 TGAATGCGCAG-----AGTAGCCGAATTCACATCAAGATGAGCAGA 306
DB 385 CTTAACACCGACGCGGAGGTTGACAGTCAAGATGACCAAGCTTGATGACAGC 326
QY 307 GTGAGACGCGCTCTCAAAAACACACAAAACAAAACATAAG 354
DB 325 GTGAGACTTCACTCTCAAAAACAAAACAAAACAAACGATG 278

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RESULT 2
US-09-949-016-14471/c
; Sequence 14471, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 14471
; LENGTH: 10980
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-14471

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Query Match
Best Local Similarity 39.6%; Score 158.4; DB 3; Length 10980;
Matches 201; Conservative 0; Mismatches 71; Indels 0; Gaps 0;

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QY 76 GCTGAATCGTGTATCCAGACACTTGGGAGCCGCAAGTGGCGGATCACTGAGTCA 135
DB 4821 GATTCAACCGCTGTATCCAGACACTTGGGAGCCGCAAGTGGCGGATCACTGAGTCA 4762
QY 136 AGAATGACAGACATCTGGGACCAATGTGTAACCCGCTTTACTAAATAACAAA 195
DB 4761 GAAATTTGAATGATGCTGGGACCAATGTGTAACCCGCTTTACTAAATAACAAA 4702

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QY 196 ATAGCTGGGATGTGGGACACACCTGTATCCAGTACTGACGAGCGGAGATTGCGAG 255
DB 4701 CCAAGCTGGGTGTGGTGTACACCTTTGTATCCAGCTACTCTGGAGCGGAGTTGGCAG 4642
QY 256 TGAGCTGAGATGCGACAGTGGAGCCGAATCAAGATCAAGATGAGTGGAGTGAAGAC 315
DB 4641 TGAGCGGAAATGCGACCACTACCTCCAGCTGGGGTGAAGAGGGAGACTGTGTCCCA 4582
QY 316 CGTCTCAAAAACACACACAAAAA 347
DB 4581 GGAAGAAAAA 4550

RESULT 3
US-09-949-016-12783/c
; Sequence 12783, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12783
; LENGTH: 15564
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12783

Query Match 39.6%; Score 158.4; DB 3; Length 15564;
Best Local Similarity 73.9%; Pred. No. 1e-36;
Matches 201; Conservative 0; Mismatches 71; Indels 0; Gaps 0;

QY 76 GGTGATGCTGTATCCAGACCTTCGGGAGCGCAAGTGGCGGAGTCACTTGAAGTCA 135
DB 9414 GGTTCACCCCTGTATCCAGACCTTCGGGAGCGGAGCGGAGTCACTTGAAGTCA 9355
QY 136 AGAGATCGAGACCATCTGCGCAACATGTTGAACCCCGCTTTTACTAAATAACAAAA 195
DB 9354 GGAAGTTGATCATCTGCGCAACATGTTGAACCCCGCTTTTACTAAATAACAAAA 9295
QY 196 ATAGCTGGGATGTGGGACACACCTGTATCCAGTACTGACGAGCGGAGATTGCGAG 255
DB 9294 CCAAGCTGGGTGTGGTGTACACCTTTGTATCCAGCTACTCTGGAGCGGAGTTGGCAG 9235
QY 256 TGAGCTGAGATGCGACAGTGGAGCCGAATCAAGATCAAGATGAGTGGAGTGAAGAC 315
DB 9234 TGAGCGGAAATGCGACCACTACCTCCAGCTGGGGTGAAGAGGGAGACTGTGTCCCA 9175
QY 316 CGTCTCAAAAACACACACAAAAA 347
DB 9174 GGAAGAAAAA 4550

RESULT 4
US-09-949-016-17230
; Sequence 17230, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
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; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17230
; LENGTH: 90776
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-17230

Query Match 39.6%; Score 158.4; DB 3; Length 90776;
Best Local Similarity 75.0%; Pred. No. 2.1e-36;
Matches 216; Conservative 1; Mismatches 57; Indels 14; Gaps 1;

QY 81 ATGCTGTATATCCAGCACTTCGGGAGCGCAAGTGGGCGGATCACTGAGTCAAGAGA 140
DB 10217 AGCCTGTATATCCAGCACTTCGGGAGCGGAGCGGCGGATTCCTGAGGTCAAGAGT 10276
QY 141 TCGAGACCATCCTGCGCAACATGTGAACCCCGCTTTTACTAAATAATAC 200
DB 10277 TCAAGATCACTGCGCAACATGTGAACCCCGCTTTTACTAAATAATAC 10336
QY 201 TGGGATGTGGGACACACCTGTATCCAGTACTCAAGAGCGGAGATTGCAAGTGAAC 260
DB 10337 TGGGATGTGGGCGGACCTGTATCCAGTACTCGGAGGTGAAGGAGGAGATG 10396
QY 261 TGAGATCGGAG-----AGTGAAGCGGAAATCAAGATCAAGATGAGCAGA 306
DB 10397 CTGGAACCCAGCGGAGGAGTTCAGTGAAGCGGAGATGCAACGCTTGGGTGCAAGC 10456
QY 307 GTGAGACGCGGCTCAAAAACACACAAAAAACCATAAG 354
DB 10457 GTGAGACTTCACTCAAAAACACACAAAAAACCATAAG 10504
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RESULT 5
US-09-949-016-13909
; Sequence 13909, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13909
; LENGTH: 44789
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-13909

Query Match 38.6%; Score 154.4; DB 3; Length 44789;
Best Local Similarity 72.5%; Pred. No. 2.4e-35;
Matches 200; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

QY 81 ATGCTGTATATCCAGCACTTCGGGAGCGCAAGTGGGCGGATCACTGAGTCAAGAGA 140
DB 14253 ATGCTGTATATCTGCGCACTTGGAGGCGCAAGGCGTGTGATCATTTGGGTGAGAGT 14312
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/ TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
/ WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
/ FILE REFERENCE: CL001307
/ CURRENT APPLICATION NUMBER: US/09/949,016
/ CURRENT FILING DATE: 2000-04-14
/ PRIOR APPLICATION NUMBER: 60/241,755
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: 60/237,768
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/231,498
/ PRIOR FILING DATE: 2000-09-08
/ NUMBER OF SEQ ID NOS: 207012
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO: 15580
/ LENGTH: 71574
/ TYPE: DNA
/ ORGANISM: Human
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)...(71574)
/ OTHER INFORMATION: n = A,T,C or G
US-09-949-016-15580

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Query Match 38.4%; Score 153.6; DB 3; Length 71574;
Best Local Similarity 72.8%; Pred. No. 5.1e-35;
Matches 198; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

QY 81 ATGCTGTAATCCAGCACTTCGGAGGCGCAAGTGGGGGATCACTGAGTCAAGAGA 140
DB 57890 ACGCTGTAAATCTCACTTTGGAGGGCTGAAGTGGGGGATCACTGAGTCAAGAGA 140

QY 141 TCGAGACCACTCTGGCGCAACATGTGAAACCCCGCTTAACTAAATAATCAAAAAATAGC 200
DB 57830 TCGAACCAAGCTGGCGCAACATGTGAAACCCCGCTTAACTAAATAATCAAAAAATAGC 57771

QY 201 TGGGATGGTGGCAACAACCTGTAGTCCAGCTACTAGAGACCGGAGATTCAGTGAAC 260
DB 57770 TGGGATGGTGGTGGGGCGCTGTATCCAGCTACTAGAGAGCGGAGATTCAGTGAAC 57711

QY 261 TGAATCGCAGAGTGAAGCCGAATATCAAGATCAAGAGTGAAGAGAGAGAGAGAGAGAG 320
DB 57710 TGAATGTGTGCACTGCACTCCAGCTGGGTGAAGAGAGAGAGAGAGAGAGAGAGAG 57651

QY 321 CAATAATTAATTAAGCATTTGTCAGGCGCAAGATGACATCGGCTGAATGCTGTATCCCA 95
DB 57650 AAAAAAACAACAAAAAACAACAAAAAACAACAAAAAACAACAAAAAACAACAAAAA 57619

RESULT 9
US-09-949-016-12683/C
; Sequence 12683, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 12683
; LENGTH: 152524
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12683

Query Match 38.4%; Score 153.4; DB 3; Length 152524;
Best Local Similarity 69.8%; Pred. No. 7.9e-35;
Matches 224; Conservative 1; Mismatches 87; Indels 9; Gaps 1;

QY 36 CAATATTAATTAAGCATTTGTCAGGCGCAAGATGACATCGGCTGAATGCTGTATCCCA 95
DB 23848 CTAATTCATAAATTAATTAATTTCTTAATCTCTGAGGGGCGAGTGCCTCAACCTGTATCCCA 23789

QY 96 GCACCTGGAGGCGCAAGGTGGGCGGATCACTGAGTCAAGAGATCGAGACCAATCTCTG 155
DB 23788 GCACCTGGAGGCGGAGGTGGGCGGATCACTGAGTCAAGAGATCGAGACCAAGCTCTG 23729

QY 156 CCAACATGTGTAACCCCGTCTTTACTTAATAAATCAAAAAATAGTGGGCAATGTGGCAC 215
DB 23728 CCAATATGTGTAACCCCGTCTTTACTTAATAAATCAAAAAATAGTGGGCGGCGTGTGGCAT 23669

QY 216 ACACCTGATGCCAGCTACTCAGAGGCGGAGATGAGAGTGAAGTGAATCGAGAGAGT 275
DB 23668 ATGCTGTAGTCCAGCTACTCAGAGGCGGAGATGAGAGAGTGAAGTGAATCGAGAGAGT 23609

QY 276 AGCCGAATATCAAGATCAAGAGTGAAG-----CAGAGTGAAGAGAGAGAGAGAGAG 326
DB 23608 CGAAGTGAAGTGAAGAGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 23549

QY 327 CAACACAAAAAACAACAAAAA 347
DB 23548 CAACACAAAAAACAACAAAAA 23528

RESULT 10
US-09-949-016-13194/C
; Sequence 13194, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 13194
; LENGTH: 152524
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-13194

Query Match 38.4%; Score 153.4; DB 3; Length 152524;
Best Local Similarity 69.8%; Pred. No. 7.9e-35;
Matches 224; Conservative 1; Mismatches 87; Indels 9; Gaps 1;

QY 36 CAATATTAATTAAGCATTTGTCAGGCGCAAGATGACATCGGCTGAATGCTGTATCCCA 95
DB 23848 CTAATTCATAAATTAATTAATTTCTTAATCTCTGAGGGGCGAGTGCCTCAACCTGTATCCCA 23789

QY 96 GCACCTGGAGGCGCAAGGTGGGCGGATCACTGAGTCAAGAGATCGAGACCAATCTCTG 155
DB 23788 GCACCTGGAGGCGGAGGTGGGCGGATCACTGAGTCAAGAGATCGAGACCAAGCTCTG 23729

QY 156 CCAACATGTGTAACCCCGTCTTTACTTAATAAATCAAAAAATAGTGGGCAATGTGGCAC 215
DB 23728 CCAATATGTGTAACCCCGTCTTTACTTAATAAATCAAAAAATAGTGGGCGGCGTGTGGCAT 23669

QY 216 ACACCTGATGCCAGCTACTCAGAGGCGGAGATGAGAGTGAAGTGAATCGAGAGAGT 275
DB 23668 ATGCTGTAGTCCAGCTACTCAGAGGCGGAGATGAGAGAGTGAAGTGAATCGAGAGAGT 23609

QY 276 AGCCGAATATCAAGATCAAGAGTGAAG-----CAGAGTGAAGAGAGAGAGAGAGAG 326
DB 23608 CGAAGTGAAGTGAAGAGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 23549

QY 327 CAACACAAAAAACAACAAAAA 347
DB 23548 CAACACAAAAAACAACAAAAA 23528

RESULT 11
US-09-949-016-16011/C
; Sequence 16011, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20

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? PRIOR APPLICATION NUMBER: 60/237,768
? PRIOR FILING DATE: 2000-10-03
? PRIOR APPLICATION NUMBER: 60/231,498
? PRIOR FILING DATE: 2000-09-08
? NUMBER OF SEQ ID NOS: 207012
? SOFTWARE: PASTESEQ for Windows Version 4.0
? SEQ ID NO 16011
? LENGTH: 40091
? TYPE: DNA
? ORGANISM: Human
? OS-09-949-016-16011

```

Query Match	38.2%;	Score 152.8;	DB 3;	Length 40091;
Best Local Similarity	75.0%;	Pred. NO. 6.9e-35;		
Matches 219; Conservative	1;	Mismatches 63;	Indels 9;	Gaps 2;

QY	84	CCGTGTAATCCAGAGACTTCCGGAGAGCCAGAGTGGGCGGATATCATCTAGGTCAAGAGATG	143
Db	30035	CCATAATATCCAGACCTTTTGGGAGGCCAGGAGGTAAATCACTTAGGCCAGGAGATCCG	29976
QY	144	AGACCATCTCGGCCACATGCTGTAACCCCGCTCTTAATAAAATATCAAAAAATAGCTGG	203
Db	29975	AGACCATCTCGGCCCAATGCTGTAATCCATCTTAATAAAATCAAAAAATAGCTGG	29916
QY	204	GCATGATGGGACACACCTGTATGTGCCAGCTACTCAGAGGCCGAGATTCAGATGAGCTGA	263
Db	29915	GCATGATGGTGCACGCTTGTAATCCAGCTACTTGGGAGGCTAGATTTGCACTGAGCTTA	29856
QY	264	GATCGCAGAGTGAGCCGAAATTCACAGATTCACAGAGTGAGCAGAGTGAACKCCGCTCA	323
Db	29855	GATCG-----TGCCATGCACTGACAGACTG-GGCAACAGAGTAAAGCTCATCTCA	29805
QY	324	AAAAACAACAAAAAACAAAAAACATAAGACATCTTCCATCTGGGGATCC	375
Db	29804	AAAAAATPAAAAAACAGCAACCAACAACTTACTTCTTACGGTTGC	29753

RESULT 12
US-09-949-016-69587/c
; Sequence 69587, Application US/09949016

```

1  APPLICANT: VENTER, J. Craig et al.
2  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
3  TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
4  FILE REFERENCE: C1001307
5  CURRENT APPLICATION NUMBER: US/09/949,016
6  CURRENT FILING DATE: 2000-04-14
7  PRIOR APPLICATION NUMBER: 60/241,755
8  PRIOR FILING DATE: 2000-10-20
9  PRIOR APPLICATION NUMBER: 60/237,768
10 PRIOR FILING DATE: 2000-10-03
11 PRIOR APPLICATION NUMBER: 60/231,498
12 PRIOR FILING DATE: 2000-09-08
13 NUMBER OF SEQ ID NOS: 207012
14 SOFTWARE: FastSeq for Windows Version 4.0
15 SEQ ID NO 69587
16 LENGTH: 601
17 TYPE: DNA
18 ORGANISM: Human
19 US-09-949-016-69587

```

	Query Match	Similarity	Score	Length
Best Local	74.0%	152	601	
Matches	225	Pred. No. 2	2e-35	
	Conservative	Mismatches	57	Indels 20; Gaps 2

	Sequence	Position
Oy	81 ATGCTGTAAATCCCAAGCACTGGGAGGCGCAAGGCGGATACCTGAAGTCAAGAGA	140
Db	487 ACGCTGTAAATCCCAAGCACTTGGGAGGCTTAAGGAGGCGGATACCTGAAGTCAAGAT	428
Oy	141 TCGAGACCATCTGGCCCAATGATGAAAACCCCGTCTTTACTTAAATATCAAAAAATAGC	200
Db	427 TCGAGACCAAGCTGGCCCAATGATGAAAACCCGTCTTACTTAAATATCAAAAAATTAGC	368

Qy	201	TTGGGCAATGGGCGACACACTGTACTCCAGTACTACAGAGCC-----GGAGATTGCAGT	256
Db	367	CGGACATGGTGGCACCGCACTCTTAATCCCACTACTTGGAGGCTGAGGCGAATCACTT	308
Qy	257	GAGCTGAGATCGCAGAGTGAGCCGAATTCACAGATCA-----CAGGTG	300
Db	307	GAAACCCRRGAGGCGAGAGGTTCAGTAGAGCAAGATCAAGCACTTCAGCTGGGT	248
Qy	301	AGCAGAGTGAAGACCCCTCTCAAAAAACAACAACAAAAAACAATAAGACATTG	366
Db	247	GACAGAGTGAAGACTCCGTCTCAAAAAACAAAAAACAAAAAACAATAAGACAAA	188
Qy	361	TTCA 364	
Db	187	ACCA 184	

RESULT 13
US-09-949-016-12784/c
Sequence 12784 Application IIS/09949016

```

; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12784
; LENGTH: 17050
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(17050)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-12784

```

Query Match	37.9%;	Score 151.4;	DB 3;	Length 17050;
Best Local Similarity	76.4%;	Pred. No. 1.3e-34;		
Matches 201; Conservative	1;	Mismatches 52;	Indels 9;	Gaps 1;

QY	81	ATGCTCTTATCCAGACACTTCGGGAGGCGCAAGGTGGCGGATCACTGAGGTCAAGAGA	140
QY	11937	AAGCTTAAATCCAGCACTTTGGGAGGCGGAGGCGCGGATCACTTAGGTCAAGGAT	11878
Db	141	TCGAGACCATCTGGCCAAATGSGTGAACCCCGCTTTACTTAAATATCAAAAAATAC	200
QY	11877	TCGAGACCACTGGCCCAATGATGTAAACTCCGCTCTACTTAAATATCAAAAAATTAC	11818
Db	201	TGGGCATGTGGGCAACAACCTGTATAGTCCGAGCTACTCAGAGGCGGAGATTGAGTGACC	260
QY	11817	CGCACTGTGTGGCGCGCGGCTGTATATCCAGCTACTCTGGAGGCGGAGGTTGCAGGAGC	11758
Db	261	TGAGATCGCAGAGTGAAGCCGAAATCAACAATCAACAAGTGAAGCAGAGTGAAGCKCCGCT	320
QY	11757	AGAGATGTGTGCATGTGACATCCAGTCTGGGCGA-----CACAGCAGACTCCGCT	11707
Db	321	CAAAATACACAAAAAAACAA 343	
QY	11706	CAAAAAAAAAAAAAAAAAAAAA 11684	

RESULT 14

```

US-09-949-016-13680/c
; Sequence 13680, Application US/09949016
; Patent No. 6812339
; ORGANISM: Human
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13680
; LENGTH: 17050
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(17050)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13680

Query Match          37.9%; Score 151.4; DB 3; Length 17050;
Best Local Similarity 76.4%; Pred. No. 1.3e-34;
Matches 201; Conservative 1; Mismatches 52; Indels 9; Gaps 1;

QY      81  ATGCTGTAAATCCCAAGCACTTCGGAGAGCCCAAGTGGCGGATCACTGAGTCAAGAGA 140
DB      11937 AAGCTCTGAATTCAGCACTTGGAGAGCCGAGCGGATCACTGAGTCAAGAGA 11878

QY      141  TCGAGACCATCTGGCCAAACATGTAAGAAACCCGCTTACTTAAATAACAAATAATAGC 200
DB      11877 TCGAGACCATCTGGCCAAACATGTAAGAAACCCGCTTACTTAAATAACAAATAATAGC 11818

QY      201  TGGGATGTCGAGCAGACACCTGTAGTCCAGCTACTCAGAGCCGAGATTGCACTGAGC 260
DB      11817 CGCAGCTGTGGCCGCGCGCTGTATCCAGCTACTCAGAGCCGAGATTGCACTGAGC 11758

QY      261  TGAAGTCGACAGTGAAGCCGAATATCAAGATCAAGATGAGCAGAGTGAAGACCCGCTCT 320
DB      11757 AGAGATCGTGCATTCAGCTCCAGTCTGGGCGA-----CACAGCAGACTCCGCTCT 11707

QY      321  CAAAACGAACAACAAACAAACAA 343
DB      11706 CAAAAAAAAAAAAAAAAAAAAA 11684

RESULT 15
US-09-949-016-13784
; Sequence 13784, Application US/09949016
; Patent No. 6812339
; ORGANISM: Human
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13784

```

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; LENGTH: 20099
; TYPE: DNA
; ORGANISM: Human
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12096
; LENGTH: 19566
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12096

Query Match          37.6%; Score 150.4; DB 3; Length 19566;
Best Local Similarity 72.1%; Pred. No. 2.7e-34;
Matches 196; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

QY      81  ATGCTGTAAATCCCAAGCACTTCGGAGAGCCCAAGTGGCGGATCACTGAGTCAAGAGA 140
DB      14763 ATGCTGTAAATCCCAAGCACTTGGAGAGCCCAAGTGGCGGATCACTGAGTCAAGAGA 14704

QY      141  TCGAGACCATCTGGCCAAACATGTAAGAAACCCGCTTACTTAAATAACAAATAATAGC 200
DB      9099 ACCA 9102

RESULT 16
US-09-949-016-12096/c
; Sequence 12096, Application US/09949016
; Patent No. 6812339
; ORGANISM: Human
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12096
; LENGTH: 19566
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12096

Query Match          37.7%; Score 150.8; DB 3; Length 20099;
Best Local Similarity 74.0%; Pred. No. 2.1e-34;
Matches 225; Conservative 1; Mismatches 58; Indels 20; Gaps 2;

QY      81  ATGCTGTAAATCCCAAGCACTTCGGAGAGCCCAAGTGGCGGATCACTGAGTCAAGAGA 140
DB      8799 AAGCTGTAAATCCCAAGCACTTGGAGAGCTTAAGTGGCGGATCACTGAGTCAAGAGA 8858

QY      141  TCGAGACCATCTGGCCAAACATGTAAGAAACCCGCTTACTTAAATAACAAATAATAGC 200
DB      8859 TCGAGACCATCTGGCCAAACATGTAAGAAACCCGCTTACTTAAATAACAAATAATAGC 8918

QY      201  TGGGATGTCGAGCAGACACCTGTAGTCCAGCTACTCAGAGCC---GAGATTGCACT 256
DB      8919 CGGACATGTCGAGCAGACACCTGTAGTCCAGCTACTTGGAGGCTGAGGAGATCACTT 8978

QY      257  GAGCTGAATCGCAGATGAGAGCCGAAATCAAGATCA-----CAGAGTG 300
DB      8979 GAACCCGGAGGAGGAGGTTGACATGAGCCAAAGATCAAGATCACTGACTTCACTGAGT 9038

QY      301  AGCAGATGAGACACCCGCTCAAAAACAAACAAACAAACAAACAAACAAACAAACAAACAA 360
DB      9039 GACAGATGAGATCTCGTCTCAAAAACAAACAAACAAACAAACAAACAAACAAACAA 9098

QY      361  TCCA 364
DB      9099 ACCA 9102

```

Db	14703	TCAGGACGACCTGGGCCAATGATGGTAAACCCCGCTCTCAATAAAAAATACAAAAATTAGC	14644
Oy	201	TGGGCACTGTTGGGCACACACTGTATGTCCACGTTACTCAGAGCCGAGATTGCAGTGAC	260
Db	14643	TGGGCACTGTTGGGCATGCGCTCTGTATGTCCAGCAACTTGGGAGGCTTAGCAGAGAAATGC	14584
Oy	261	TGAGATTGGCAGAGTGAAGCCGAAATCAACATTCACAGATGAGCAGAGTGAGACGCCGCT	320
Db	14583	CTTGAAACCCAGGAGGTGAGGTTGCAGGTGCGGAGATTTGTGCCATTGCACTTCATCTCA	14524
Oy	321	CAAAAAACAACAACAAAAAACAATAAATCCATA	352
Db	14523	AAAAAACTTCACTCTCAAAAAAAGAAAGAAA	14492

RESULT 17
US-09-949-016-14114/C
; Sequence 14114, Application US/09949016

GENERAL INFORMATION:

```

? TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
? TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
? FILE REFERENCE: CL001307
? CURRENT APPLICATION NUMBER: US/09/949,016
? CURRENT FILING DATE: 2000-04-14
? PRIOR APPLICATION NUMBER: 60/241,755
? PRIOR FILING DATE: 2000-10-20
? PRIOR APPLICATION NUMBER: 60/237,768
? PRIOR FILING DATE: 2000-10-03
? PRIOR APPLICATION NUMBER: 60/231,498
? PRIOR FILING DATE: 2000-09-08
? NUMBER OF SEQ ID NOS: 207012
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 14114
? LENGTH: 19567 .
? TYPE: DNA
? ORGANISM: Human
? US-09-949-016-14114

```

Query Match	37.6%	Score 150.4;	DB 3;	length 19567;
Best Local Similarity	72.1%	Pred. No. 2.7e-34;		
Matches 196; Conservative	0;	Mismatches 76;	Indels 0;	Gaps 0;

OY	81	TTGCTGTAATCCGAGCACTTGGGAGGCCAAGTGGGCGAATCACTGAGGTCAAGAGA	140
Db	14763	ATGCTTGTAATCCAGCACTTTGAAGGCCAAGCGAGCAATCACTGAGGTCAAGGAT	14704
OY	141	TCGAGACCATCTGGCCAACTGGTGAACCCGCTCTTTACTTAAATATCAAAAAATTAGC	200
Db	14703	TCAAGACGAGCTGGCCAACTGGTGAACCCGCTCTCTAATAAATAAAAAATTAGC	14644
OY	201	TGGGCATGGTGGCACACCTGTGTGTCCAGCTACTAGAGCGCGAGATTGCAATGAGC	260
Db	14643	TGGCATGGTGGCACATGCGCTGTGTGTCCAGCACTTGGAGGCTAGAGCGAGAGATCG	14584
OY	261	TGAATGCGCAGAGTGAAGCCGAATCACAGATCA CAGAGTGAAGAGATGAGACKCGCTCT	320
Db	14583	CTTGAACCCAGGAGTGGAGGTTGCAATGAGCGAGATTGTGCATTGCACTCTCATCTCA	14524
OY	321	CAAAAAACAACAAAAAACAATAAACCATA	352
Db	14523	AAAAAATCTCATCTCAAAAAAAGAAAGAA	14492

RESULT 18
US-09-949-016-14157

; Sequence 14157, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: WITH HUMAN DISEASE METHODS OF DETECTION AND USES THEREOF

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

```

1 FILE REFERENCE: CLO001307
2 CURRENT APPLICATION NUMBER: US/09/949,016
3 PRIOR FILING DATE: 2000-04-14
4 PRIOR APPLICATION NUMBER: 60/241,755
5 PRIOR FILING DATE: 2000-10-20
6 PRIOR APPLICATION NUMBER: 60/237,768
7 PRIOR FILING DATE: 2000-10-03
8 PRIOR APPLICATION NUMBER: 60/231,498
9 PRIOR FILING DATE: 2000-09-08
10 NUMBER OF SEQ ID NOS: 207012
11 SOFTWARE: FASTSEQ for Windows Version 4.0.
12 SEQ ID NO 14157
13 LENGTH: 455726
14 TYPE: DNA
15 ORGANISM: Human
16 FEATURE:
17 NAME/KEY: misc_feature
18 LOCATION: (1)...(455726)
19 OTHER INFORMATION: n = A,T,C or G
20 US-09-949-016-14157

```

Query Match	37.4%	Score 149.6;	DB 3;	Length 455726;
Best Local Similarity	73.5%;	Pred. No. 1.6e-33;		
Matches 219;	Conservative 1;	Mismatches 69;	Indels 9;	Gaps 2;

QY	81	TTGCTGTAATATCCGAGCACTTGAGGAGGCGAAGTGGCGATATCACTGAGGCGAAGA	140
QY	143833	ATGCTGTAAATCTTAGCACTTTGGAGGGCCGAGTGGCGATCACTTAGATCAGGAGT	143892
QY	141	TCGAGACCATCTGGCCCAACATGTGTAAACCCCGTCTTACTTAATAATACAAAAATAGC	200
Db	143893	TCAGAACCACTGTGGCCAAACATGTGGAAACCCCATCTGTACTTAAATAATTAAGATTAGC	143952
QY	201	TGGGCAATGGTGGCACACCTGTATCTCCAGCTATCTCAGGACCGGAGATTTGCATGAGC	260
Db	143953	TGGGCTATGGTGTGATGTCTGTAAATCCAGCTACTCGGAGGTGAGGTTGCATGAGT	144012
QY	261	TGAGATCGCAGAGTGAGCCGAAATACAGATACAGAGTGAACAGATGAGAGCKCCGCTT	320
Db	144013	TGAGATCG-----TGCAATGCACATCCCTGGGGTGA-CAGAGTGAAGCTTTGTCT	144063
QY	321	CAAAACACACACAAAAACAAAAAACATATAGACATTTGTCCATTTGGGCTTCCAG	378
Db	144064	TTAAACCAAAAAAAGCAAAATTTACTTACTTATTTAGTCCAGATGCCCTTG	144121

RESULT 19
US-09-949-016-11940

; Sequence 11940, A

; Patent No. 681233

; GENERAL INFORMATION:

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

1113 OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: CL001307

CURRENT APPLICATION NUMBER: US/09/94

CURRENT FILING DATE: 2000-04-14

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20
PRIOR ADDITION NUMBER: 60/337 768

PRIOR FILING DATE: 2000-10-03

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0.0

; SEQ ID NO 11940

; LENGTH: 481115

TYPE: DNA

ORGANISM: Human

NAME/KEY: misc feature

LOCATION: (1) ... (481115)

OTHER INFORMATION: N = A, T, C OR G

US-09-949-016-11940

Query Match 37.4%; Score 149.6; DB 3; Length 481115;

Best Local Similarity 73.5%; Pred. No. 1.7e-33; Indels 9; Gaps 2;

Matches 219; Conservative 1; Mismatches 69; Indels 9; Gaps 2;

Db 14796 CAAAAAAAAAAAAAAAAAAGCAAAAAAAAAA 14760

|||||

RESULT 21

US-09-949-016-17127

Sequence 17127, Application US/09949016

Patent No. 6812339

GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

FILE REFERENCE: CLO01307

CURRENT APPLICATION NUMBER: US/09/949,016

PRIOR FILING DATE: 2000-04-14

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/237,768

PRIOR FILING DATE: 2000-10-03

PRIOR APPLICATION NUMBER: 60/231,498

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FASTSEQ for Windows Version 4.0

SEQ ID NO 17127

LENGTH: 228896

TYPE: DNA

ORGANISM: Human

FEATURE:

NAME/KEY: misc.feature

LOCATION: (1) ... (228896)

OTHER INFORMATION: n = A,T,C or G

US-09-949-016-17127

Query Match 37.3%; Score 149; DB 3; Length 228896;

Best Local Similarity 68.4%; Pred. No. 1.9e-33;

Matches 236; Conservative 1; Mismatches 76; Indels 32; Gaps 1;

Qy 46 TAAAGATTGTCAGGCGGAGATGACATGCTGTAATGCTGTATCCAGACTTGGG 105

Db 55811 TAGAAATGACAAAGCTGCGCAGGACGCTGCTCAGCCTGTATCCAGACTTGGG 55870

Qy 106 AGCCAGGTGGGCGGATCATCTGAGTCAAGAGATCAGACCATCTGCGCAATGGT 165

Db 55871 AGCCAGGTGGGCGGATCATCTGAGTCAAGAGATCAGACCATCTGCGCAATGGT 55930

Qy 166 GAAACCCGCTTTTACTTAAATTAATAAATTAAGTGGGCAATGTCACACCTGTAG 225

Db 55931 GAAACCCGCTTTTACTTAAATTAATAAATTAAGTGGGCGTGGGCAACCTGTAG 55990

Qy 226 TCCAGCT-----ACTAGAGCCGGAGATTGC 253

Db 55991 TCCAGCTACTTGGAGGCTGAGGAGGAATTGCTTGAATCAGAGGAGAGATTGC 56050

Qy 254 AGTAGAGTAGATGACAGAGTGAGCCGAATCAGAGATGAGAGTGAGAGC 313

Db 56051 AGTAGAGTAGATGACAGAGTGAGCCGAATCAGAGATGAGAGTGAGAGC 56110

Qy 314 KCCGCTCAAAAACAACAACAAAAAACAATTAAGAT 358

Db 56111 TCTGTCAAAAACAACAACAAAAAACAATTAAGAT 56155

RESULT 22

US-09-949-016-12517/C

Sequence 12517, Application US/09949016

Patent No. 6812339

GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

FILE REFERENCE: CLO01307

CURRENT APPLICATION NUMBER: US/09/949,016

CURRENT FILING DATE: 2000-04-14

RESULT 20

US-09-949-016-16723/C

Sequence 16723, Application US/09949016

Patent No. 6812339

GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

FILE REFERENCE: CLO01307

CURRENT APPLICATION NUMBER: US/09/949,016

CURRENT FILING DATE: 2000-04-14

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/237,768

PRIOR FILING DATE: 2000-10-03

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FASTSEQ for Windows Version 4.0

SEQ ID NO 16723

LENGTH: 157822

TYPE: DNA

ORGANISM: Human

US-09-949-016-16723

Query Match 37.4%; Score 149.4; DB 3; Length 157822;

Best Local Similarity 74.0%; Pred. No. 1.2e-33;

Matches 205; Conservative 1; Mismatches 62; Indels 9; Gaps 1;

Qy 81 ATGCTGTATATCCAGCACTTCGGAGGCGCAAGTGGGCGGATCACTGAGTCAAGA 140

Db 15027 AGCTCTGTATATCCAGCACTTCGGAGGCGGCAAGTGCATCACTTAAAGTCA 14968

Qy 141 TCGAGACATCTCGGCAACATGTGAAACCCGCTTTACTTAAATAATCAAAAAATG 200

Db 14967 TCAAGACATCTCGGCAACATGTGAAACCCGCTTTACTTAAATAATCAAAAAATG 14908

Qy 201 TGGGATGTCGACACACTTGTAGTCCAGCTACTCAGAGCCGAGATTGCACTGAGC 260

Db 14907 CAGGATATGTGCGACAGCACTGTATCCAGCTACTCAGAGCCGAGATTGCACTGAGC 14848

Qy 261 TGAAGTCCGAGAGTGAAGCCGAATATCAAGATCAAGAGTGAAGAGTGAAGCCKCGTCT 320

Db 14847 TGAAGTCCGAGAGTGAAGCCGAATATCAAGATCAAGAGTGAAGAGTGAAGCCKCGTCT 14797

Qy 321 CAAAAACAACAACAAAAAACAATTAAGATTTAGTCCAGTTGCCCTG 121510

Db 121453 TTTAAACAAAAAAGCAAAATTTCTACTCATTGTTAGTCCAGTTGCCCTG 121510

PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 12517
LENGTH: 77994
TYPE: DNA
ORGANISM: Human
US-09-949-016-12517

Query Match 37.2%; Score 148.8; DB 3; Length 77994;
Best Local Similarity 72.7%; Pred. No. 1.4e-33;
Matches 192; Conservative 0; Mismatches 72; Indels 0; Gaps 0;

QY 84 CCTGTAATCCAGCAGCTTGGGAGGCCAAGGTGGCGGATGACCTGAGGTCAAGAGATCG 143
DB 73058 CCTGTAATCCAGCAGCTTGGGAGGCCAAGGTGGCGGATGACCTGAGGTCAAGAGATCG 72999
QY 144 AGACCATCTGCGCCACATGTGTGAACCCCGTCTTTACTAATAAATACAAAATATAGCTGG 203
DB 72998 AGACCATCTGCGCCACATGTGTGAACCCCGTCTTTACTAATAAATACAAAATATAGCTGG 72939
QY 204 GCATGTGGCAGACACCTGTGTAGTCCCACTACTACAGAGCCGGAGATTGCAAGCTGA 263
DB 72938 GCGGTGTGGCGCACATCTGTATCCAGCTACTTGGGAGGCTGAGGCAAGAAATTGTCAT 72879
QY 264 GATGCGAGAGTGAGCGGAAATACAGATCACAGAGTGAGAGAGACACCGCTCTCAA 323
DB 72878 GAACCCAGAGGCGGAGGTTGCACTGCACTTACTAGCTTACAGAACAGAACAACTGTCTC 72819
QY 324 AAACACACACAAAAAACAACAAAAA 347
DB 72818 AAAAAAAAAAAAAAAAAAAAAA 72795

RESULT 23
US-09-949-016-16021/c
Sequence 16021, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: US/09/949,016
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 16021
LENGTH: 77994
TYPE: DNA
ORGANISM: Human
US-09-949-016-16021

Query Match 37.2%; Score 148.8; DB 3; Length 77994;
Best Local Similarity 72.7%; Pred. No. 1.4e-33;
Matches 192; Conservative 0; Mismatches 72; Indels 0; Gaps 0;

QY 84 CCTGTAATCCAGCAGCTTGGGAGGCCAAGGTGGCGGATGACCTGAGGTCAAGAGATCG 143
DB 73058 CCTGTAATCCAGCAGCTTGGGAGGCCAAGGTGGCGGATGACCTGAGGTCAAGAGATCG 72999
QY 144 AGACCATCTGCGCCACATGTGTGAACCCCGTCTTTACTAATAAATACAAAATATAGCTGG 203

DB 72938 AGACCATCTGACATGATGTGAAACCCCGTCTTTACTAATAAATACAAAATATAGCTGG 72939
QY 204 GCATGTGGCAGACACCTGTGTAGTCCCACTACTACAGAGCCGGAGATTGCAAGCTGA 263
DB 72938 GCGGTGTGGCGCACATCTGTATCCAGCTACTTGGGAGGCTGAGGCAAGAAATTGTCAT 72879
QY 264 GATGCGAGAGTGAGCGGAAATACAGATCACAGAGTGAGAGAGACACCGCTCTCAA 323
DB 72878 GAACCCAGAGGCGGAGGTTGCACTGCACTTACTAGCTTACAGAACAGAACAACTGTCTC 72819
QY 324 AAACACACACAAAAAACAACAAAAA 347
DB 72818 AAAAAAAAAAAAAAAAAAAAAA 72795

RESULT 24
US-09-949-016-13460/c
Sequence 13460, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: US/09/949,016
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13460
LENGTH: 8100
TYPE: DNA
ORGANISM: Human
US-09-949-016-13460

Query Match 37.2%; Score 148.6; DB 3; Length 8100;
Best Local Similarity 74.9%; Pred. No. 6.4e-34;
Matches 200; Conservative 1; Mismatches 60; Indels 6; Gaps 1;

QY 83 GCTGTATATCCAGCAGCTTGGGAGGCCAAGGTGGCGGATGACCTGAGGTCAAGATC 142
DB 6648 GCTGTATATCCAGCAGCTTGGGAGGCCAAGGTGGCGGATGACCTGAGGTCAAGATC 6589
QY 143 GAGACCATCTGCGCCACATGTGTGAACCCCGTCTTTACTAATAAATACAAAATATAGCTG 202
DB 6588 AGACCATCTGCGCCACATGTGTGAACCCCGTCTTTACTAATAAATACAAAATATAGCTG 6529
QY 203 GCGATGTGGCAGACACCTGTGTAGTCCCACTACTACAGAGCCGGAGATTGCAAGCTG 262
DB 6528 GCGATGTGGCAGACACCTGTGTAGTCCCACTACTACAGAGCCGGAGATTGCAAGCTG 6469
QY 263 AGATGCGAGATGAGCGGAAATACAGATC-----ACAGGTGAGCAGATGAGACGCC 316
DB 6468 TGAACCCAGAGGAGGAGGTTGCACTGAGCACTCCAACTGGGCAACAGAGTGAAGCTCT 6409
QY 317 GTCTCAAAAAACAACAAAAAACA 343
DB 6408 GTCTCAAAAAAACAACAAAAAACA 6382

RESULT 25
US-09-949-016-13461/c
Sequence 13461, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED


```
;; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;; FILE REFERENCE: CL001307
;; CURRENT APPLICATION NUMBER: US/09/949,016
;; CURRENT FILING DATE: 2000-04-14
;; PRIOR APPLICATION NUMBER: 60/241,755
;; PRIOR FILING DATE: 2000-10-20
;; PRIOR APPLICATION NUMBER: 60/237,768
;; PRIOR FILING DATE: 2000-10-03
;; PRIOR APPLICATION NUMBER: 60/231,498
;; PRIOR FILING DATE: 2000-09-08
;; NUMBER OF SEQ ID NOS: 207012
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 13461
;; LENGTH: 8100
;; TYPE: DNA
;; ORGANISM: Human
US-09-949-016-13461

Query Match
Best Local Similarity 37.2%; Score 148.6; DB 3; Length 8100;
Matches 200; Conservative 1; Mismatches 60; Indels 6; Gaps 1;

QY 83 GCCTTAATCCGACACTTCGGGAGGCCAAGGTGGCGGATCACTGAGTCAAGATC 142
DB 6648 GCGTGTAAATCCGACACTTTGGGAGGCCAAGGTGATGATCACTGAGTCAAGGTTTC 6589

QY 143 GAGACCATCTGGCCCAACATGCTGAACCCGCTTTTAAATAATACAAATAATGCTG 202
DB 6588 AAGACCACTGCGCCCAACATGCTGAACCCGCTTTTAAATAATACAAATAATGCTG 6529

QY 203 GGCATGCTGGGACACACCTGTAGTCCAGCTACTACGAGCCGAGATTGACAGCTG 262
DB 6528 GGCATGCTGGGACGCGGCGCTGTAAATCCAGCTACTGAGGAGTGAAGCAAGATTCCT 6469

QY 263 AGATGCGAGTGCAGCCGCAATCACAATC-----ACAGAGTGCAGAGTGAAGATCC 316
DB 6468 TGAACCCGAGGAGGAGAGTGTGCACTCCAACTGGGCAACAGATGAGACTCT 6409

QY 317 GCTTCAAAAACACAAACAAAACAA 343
DB 6408 GTCTCAAAAACAAAACAAAACAA 6382

RESULT 26
US-09-949-016-152016
;; Sequence 152016, Application US/09949016
;; Patent No. 6812339
;; GENERAL INFORMATION:
;; APPLICANT: VENTER, J. Craig et al.
;; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;; FILE REFERENCE: CL001307
;; CURRENT APPLICATION NUMBER: US/09/949,016
;; CURRENT FILING DATE: 2000-04-14
;; PRIOR APPLICATION NUMBER: 60/241,755
;; PRIOR FILING DATE: 2000-10-20
;; PRIOR APPLICATION NUMBER: 60/237,768
;; PRIOR FILING DATE: 2000-10-03
;; PRIOR APPLICATION NUMBER: 60/231,498
;; PRIOR FILING DATE: 2000-09-08
;; NUMBER OF SEQ ID NOS: 207012
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 152016
;; LENGTH: 601
;; TYPE: DNA
;; ORGANISM: Human
US-09-949-016-152016

Query Match
Best Local Similarity 37.0%; Score 148; DB 3; Length 601;
Matches 213; Conservative 1; Mismatches 61; Indels 9; Gaps 2;

QY 84 CCTGTAAATCCGACACTTCGGGAGGCCAAGGTGGCGGATCACTGAGTCAAGATCG 143
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DB 326 CCTATATCCGACACTTTGGGAGGCCGAGGAGGTAGATCACTGAGGCCAGAGTCCG 385
QY 144 AGACCATCTGGGCCCAACATGCTGAACCCCGCTTTTAAATAATCAAAATAATGCTG 203
DB 386 AGACCACTGCGCCCAACATGCTGAACCCCGCTTTTAAATAATCAAAATAATGCTG 445
QY 204 GCATGCTGGGACACACCTGTAGTCCAGCTCTGAGAGCCGAGATTGCAGTGAGCTGA 263
DB 446 GCATGCTGGGACACACCTGTAGTCCAGCTCTGAGAGCCGAGATTGCAGTGAGCTGA 505
QY 264 GATCGCAGAGTGAAGCCGAATACAGATCAGAGAGTGAAGAGTGAAGATCCGCTCA 323
DB 506 GATCG-----TGCACCTGCACTGAGACTG- GCGACAGAGTGAAGATCCATCTCA 556

QY 324 AAACACACACAAAACAAAACAAATTAAGATTTGCTCT 367
DB 557 AAAAAATAAAAACAAACAAACAAACAACTTAGTTCT 600

RESULT 27
US-09-949-002-2953/c
;; Sequence 2953, Application US/09949002
;; Patent No. 6900016
;; GENERAL INFORMATION:
;; APPLICANT: VENTER, J. Craig et al.
;; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;; FILE REFERENCE: CL000790
;; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
;; CURRENT APPLICATION NUMBER: US/09/949,002
;; CURRENT FILING DATE: 2000-01-28
;; PRIOR APPLICATION NUMBER: 60/231,401
;; PRIOR FILING DATE: 2000-09-08
;; NUMBER OF SEQ ID NOS: 10823
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 2953
;; LENGTH: 601
;; TYPE: DNA
;; ORGANISM: Human
US-09-949-002-2953

Query Match
Best Local Similarity 37.0%; Score 147.8; DB 3; Length 601;
Matches 176; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 81 ATGCTGTAAATCCGACACTTCGGGAGGCCAAGGTGGCGGATCACTGAGTCAAGAGA 140
DB 232 ATGCTGTAAATCCGACACTTTGGGAGGCCGAGGAGTGGATGCTGAGTCAAGAGT 173
QY 141 TCGAGACCATCTGGGCCAACATGCTGAACCCCGCTTTTAAATAATCAAAATAATG 200
DB 172 TTGAGACCCGCGCTGGCCAACTGCTGAACCCCGCTTCACTAATAATAATTAATG 113
QY 201 TGGGCACTGGGACACACCTGTAGTCCAGCTCTGAGAGCCGAGATTGCAGTGAGC 260
DB 112 TGGGCACTGGGACACACCTGTAGTCCAGCTCTGAGAGCCGAGATTGCAGTGAGC 53
QY 261 TGAATGCGAGAGTGAAGCCGAATACAGATCAGAGTGAAGC 303
DB 52 CTGGAACCCAGAGTGAAGTTCGATGAGCCCAAGATGATG 10

RESULT 28
US-09-949-002-2954/c
;; Sequence 2954, Application US/09949002
;; Patent No. 6900016
;; GENERAL INFORMATION:
;; APPLICANT: VENTER, J. Craig et al.
;; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
;; FILE REFERENCE: CL000790
```


DB 55522 ATGCGTGAATCCAGCACTTTGGAGGCGGAGTGGGTGATCCGCTAGGTCAAGAGT 55581
QY 141 TGAAGACCATCTCTGGCAACATGTGTAAACCCCGTCTTACTTAAATAATCAAAAAATAGC 200
DB 55582 TTGAAGACCGGCTGGCGCAACATGTGTAAACCCCGTCACTAATAATAATCAAAAAATTAGC 55641
QY 201 TGGGATGTGTGGCAACACCTGTAGTCCAGTACTCAGAGCCCGAGATTTCAGTGAAC 260
DB 55642 TGGGATGTGTGGCAACACCTGTAGTCCAGTACTCAGAGCCCGAGATTTCAGTGAATTC 55701
QY 261 TGAGATCGCAGAGTGGCGGCAATCAAGATCAAGATGAGC 303
DB 55702 CTTGAACCCAGAGGTGAGGTTGCACTGAGCCAGATGATGTC 55744

RESULT 32
US-09-949-002-706
Sequence 706, Application US/09949002
Patent No. 6900016

GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION

FILE REFERENCE: CLO00790

CURRENT APPLICATION NUMBER: US/09/949,002

CURRENT FILING DATE: 2000-01-28

PRIOR APPLICATION NUMBER: 60/231,401

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 10823

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 706

LENGTH: 60595

TYPE: DNA

ORGANISM: Human

US-09-949-002-706

Query Match 37.0%; Score 147.8; DB 3; Length 60595;
Best Local Similarity 78.9%; Pred. No. 2.5e-33;

Matches 176; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 81 ATGCTGTAAATCCAGCACTTTGGAGGCGGAGTGGGTGATCCGCTAGGTCAAGAGA 140
DB 55522 ATGCTGTAAATCCAGCACTTTGGAGGCGGAGTGGGTGATCCGCTAGGTCAAGAGT 55581
QY 141 TGAAGACCATCTCTGGCAACATGTGTAAACCCCGTCTTACTTAAATAATCAAAAAATAGC 200
DB 55582 TTGAAGACCGGCTGGCGCAACATGTGTAAACCCCGTCACTAATAATAATCAAAAAATTAGC 55641
QY 201 TGGGATGTGTGGCAACACCTGTAGTCCAGTACTCAGAGCCCGAGATTTCAGTGAAC 260
DB 55642 TGGGATGTGTGGCAACACCTGTAGTCCAGTACTCAGAGCCCGAGATTTCAGTGAATTC 55701
QY 261 TGAGATCGCAGAGTGGCGGCAATCAAGATCAAGATGAGC 303
DB 55702 CTTGAACCCAGAGGTGAGGTTGCACTGAGCCAGATGATGTC 55744

RESULT 33
US-09-949-016-13849

Sequence 13849, Application US/09949016

Patent No. 6812339

GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: CLO01307

CURRENT APPLICATION NUMBER: US/09/949,016

CURRENT FILING DATE: 2000-04-14

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/237,768

PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13849
LENGTH: 86945
TYPE: DNA
ORGANISM: Human
FEATURE:
NAME/KEY: misc.feature
LOCATION: (1) --(86945)
OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13849

Query Match 37.0%; Score 147.8; DB 3; Length 86945;
Best Local Similarity 73.5%; Pred. No. 2.9e-33;
Matches 208; Conservative 1; Mismatches 58; Indels 16; Gaps 1;

QY 81 ATGCTGTAAATCCAGCACTTTGGAGGCGGAGTGGGTGATCCGCTAGGTCAAGAGA 140
DB 25003 ATGCTGTAAATCCAGCACTTTGGAGGCGGAGTGGGTGATCCGCTAGGTCAAGAGT 25062
QY 141 TGAAGACCATCTCTGGCAACATGTGTAAACCCCGTCTTACTTAAATAATCAAAAAATAGC 200
DB 25063 TTGAAGACCGGCTGGCGCAACATGTGTAAACCCCGTCACTAATAATAATCAAAAAATTAGC 25122
QY 201 TGGGATGTGTGGCAACACCTGTAGTCCAGTACTCAGAGCCCGAGATTTCAGTGAAC 260
DB 25123 TGGGATGTGTGGCAACACCTGTAGTCCAGTACTCAGAGCCCGAGATTTCAGTGAATTC 25182
QY 261 TGAGATCGCAGAGTGGCGGCAATCAAGATGAGC-----CACAGATGAGCA 304
DB 25183 CTGGAGGCGCAGAGTGGCGGCAATCAAGATGAGTGGCGGCAATGAGTGGCGGCAAC 25242
QY 305 GAGTGAAGCAGAGTGGCGGCAATCAAGATGAGTGGCGGCAATGAGTGGCGGCAAC 347
DB 25243 GTGTAAGCTCAGTCTCAAAAGAAATTAATAATAATAATAATAATAATAATAATA 25285

RESULT 34
US-09-949-016-13850

Sequence 13850, Application US/09949016

Patent No. 6812339

GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: CLO01307

CURRENT APPLICATION NUMBER: US/09/949,016

CURRENT FILING DATE: 2000-04-14

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/237,768

PRIOR FILING DATE: 2000-10-03

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 13850

LENGTH: 86945

TYPE: DNA

ORGANISM: Human

FEATURE:

NAME/KEY: misc.feature

LOCATION: (1) --(86945)

OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13850

Query Match 37.0%; Score 147.8; DB 3; Length 86945;
Best Local Similarity 73.5%; Pred. No. 2.9e-33;
Matches 208; Conservative 1; Mismatches 58; Indels 16; Gaps 1;

```
QY 81 ATGCTGTAATCCAGCACTTGGAGGCGCAAGTGGGCGGATGACCTGAGTCAAGA 140
DB 25003 ATGCTGTAATCCAGCACTTGGAGGCGTGAAGTGGAGATTAATTGAGGTCAAGAGT 25062
QY 141 TCGAGACCATCTCTGGCCCAATGTAACCCCGTCTTACTTAATAAATACAAAAATAGC 200
DB 25063 TTGAGACCAAGCTGGCCCAATGTAACCCCGTCTTACTTAATAAATACAAAAATAGC 25122
QY 201 TGGGATGTTGGCAACACCTGTAGTCCAGCTACTCAGAGCGGAGATTGCAGTAGC 260
DB 25123 TGGGCGTGTGTGTGCACTATATCTAGCTACTCAGAGGCTGAGGTTGCAGTAGC 25182
QY 261 TGAATGCGAGAGTGAAGCCGAATACAGAT-----CACAGAGTGAGCA 304
DB 25183 CTGGAGGCGAGAGTTGCAAGTGAAGTGAATGTCCTGATCTCCAGCTGGGCAACA 25242
QY 305 GAGTGAGACKCCGTCTCAAAAACAACAACAAAAA 347
DB 25243 GTGTGAGACTCCATCTCAAAAAGAATAAATAAATAAATAA 25285

RESULT 35
US-09-949-016-13851
; Sequence 13851, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13851
; LENGTH: 86945
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(86945)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13851

Query Match 37.0%; Score 147.8; DB 3; Length 86945;
Best Local Similarity 73.5%; Pred. No. 2.9e-33;
Matches 208; Conservative 1; Mismatches 58; Indels 16; Gaps 1;
```

```
QY 81 ATGCTGTAATCCAGCACTTGGAGGCGCAAGTGGGCGGATGACCTGAGTCAAGA 140
DB 25003 ATGCTGTAATCCAGCACTTGGAGGCGTGAAGTGGAGATTAATTGAGGTCAAGAGT 25062
QY 141 TCGAGACCATCTCTGGCCCAATGTAACCCCGTCTTACTTAATAAATACAAAAATAGC 200
DB 25063 TTGAGACCAAGCTGGCCCAATGTAACCCCGTCTTACTTAATAAATACAAAAATAGC 25122
QY 201 TGGGATGTTGGCAACACCTGTAGTCCAGCTACTCAGAGCGGAGATTGCAGTAGC 260
DB 25123 TGGGCGTGTGTGTGCACTATATCTAGCTACTCAGAGGCTGAGGTTGCAGTAGC 25182
QY 261 TGAATGCGAGAGTGAAGCCGAATACAGAT-----CACAGAGTGAGCA 304
DB 25183 CTGGAGGCGAGAGTTGCAAGTGAAGTGAATGTCCTGATCTCCAGCTGGGCAACA 25242
QY 305 GAGTGAGACKCCGTCTCAAAAACAACAACAAAAA 347
DB 25243 GTGTGAGACTCCATCTCAAAAAGAATAAATAAATAAATAAATAA 25285

RESULT 36
US-09-949-016-13852
; Sequence 13852, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13852
; LENGTH: 86945
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(86945)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13852

Query Match 37.0%; Score 147.8; DB 3; Length 86945;
Best Local Similarity 73.5%; Pred. No. 2.9e-33;
Matches 208; Conservative 1; Mismatches 58; Indels 16; Gaps 1;
```

```
QY 81 ATGCTGTAATCCAGCACTTGGAGGCGCAAGTGGGCGGATGACCTGAGTCAAGA 140
DB 25003 ATGCTGTAATCCAGCACTTGGAGGCGTGAAGTGGAGATTAATTGAGGTCAAGAGT 25062
QY 141 TCGAGACCATCTCTGGCCCAATGTAACCCCGTCTTACTTAATAAATACAAAAATAGC 200
DB 25063 TTGAGACCAAGCTGGCCCAATGTAACCCCGTCTTACTTAATAAATACAAAAATAGC 25122
QY 201 TGGGATGTTGGCAACACCTGTAGTCCAGCTACTCAGAGCGGAGATTGCAGTAGC 260
DB 25123 TGGGCGTGTGTGTGCACTATATCTAGCTACTCAGAGGCTGAGGTTGCAGTAGC 25182
QY 261 TGAATGCGAGAGTGAAGCCGAATACAGAT-----CACAGAGTGAGCA 304
DB 25183 CTGGAGGCGAGAGTTGCAAGTGAAGTGAATGTCCTGATCTCCAGCTGGGCAACA 25242
QY 305 GAGTGAGACKCCGTCTCAAAAACAACAACAAAAA 347
DB 25243 GTGTGAGACTCCATCTCAAAAAGAATAAATAAATAAATAAATAA 25285

RESULT 37
US-09-949-016-13853
; Sequence 13853, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
```

NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 13853
LENGTH: 86945
TYPE: DNA
ORGANISM: Human
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(86945)
OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13853

Query Match 37.0%; Score 147.8; DB 3; Length 86945;
Best Local Similarity 73.5%; Pred. No. 2.9e-33;
Matches 208; Conservative 1; Mismatches 58; Indels 16; Gaps 1;

OY 81 ATGCTGTATATCCAGCACTTGGGAGGCCAAGTGGGCGGATCACTGAGGTCAAGAGA 140
DB 25003 ATGCTGTATATCCAGCACTTGGGAGGCCAAGTGGGCGGATCACTGAGGTCAAGAGA 25062
OY 141 TCGAGACCTCTCTGGCCCAACATGTTGAAACCCCGTCTTACTTAAATAATCAAAAAATAGC 200
DB 25063 TTGAGACCAAGCTTGGCCCAACATGTTGAAACCCCGTCTTACTTAAATAATCAAAAAATAGC 25122
OY 201 TGGGATGATGGGACACACCTGTAGTCCAGCTACTCAGAGCCGAGATTGCAAGTGGC 260
DB 25123 TGGGATGATGGGACACACCTGTAGTCCAGCTACTCAGAGCCGAGATTGCAAGTGGC 25182
OY 261 TGAGATCGCAGAGTGAGCCGAATCAAGAT-----CACAGAGTGAGCA 304
DB 25183 CTGGAGGCGAGAGGTGCGAGTGAGCTGAGATGTGCGATTGTCACAGCTGGGCAACA 25242
OY 305 GAGTGAGACCCGCTCTCAAAAACAACAACAAAAA 347
DB 25243 GTGTGAGACTCCATCTCAAAAAGAATAAATAAATAAATAA 25285

RESULT 38

US-09-949-016-13854
Sequence 13854, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 13854
LENGTH: 86945
TYPE: DNA
ORGANISM: Human
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(86945)
OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13854

Query Match 37.0%; Score 147.8; DB 3; Length 86945;
Best Local Similarity 73.5%; Pred. No. 2.9e-33;
Matches 208; Conservative 1; Mismatches 58; Indels 16; Gaps 1;
OY 81 ATGCTGTATATCCAGCACTTGGGAGGCCAAGTGGGCGGATCACTGAGGTCAAGAGA 140
DB 25003 ATGCTGTATATCCAGCACTTGGGAGGCCAAGTGGGCGGATCACTGAGGTCAAGAGA 25062

OY 141 TCGAGACCTCTCTGGCCCAACATGTTGAAACCCCGTCTTACTTAAATAATCAAAAAATAGC 200
DB 25063 TTGAGACCAAGCTTGGCCCAACATGTTGAAACCCCGTCTTACTTAAATAATCAAAAAATAGC 25122
OY 201 TGGGATGATGGGACACACCTGTAGTCCAGCTACTCAGAGCCGAGATTGCAAGTGGC 260
DB 25123 TGGGATGATGGGACACACCTGTAGTCCAGCTACTCAGAGCCGAGATTGCAAGTGGC 25182
OY 261 TGAGATCGCAGAGTGAGCCGAATCAAGAT-----CACAGAGTGAGCA 304
DB 25183 CTGGAGGCGAGAGGTGCGAGTGAGCTGAGATGTGCGATTGTCACAGCTGGGCAACA 25242
OY 305 GAGTGAGACCCGCTCTCAAAAACAACAACAAAAA 347
DB 25243 GTGTGAGACTCCATCTCAAAAAGAATAAATAAATAAATAA 25285

RESULT 39

US-09-949-016-13855
Sequence 13855, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 13855
LENGTH: 86945
TYPE: DNA
ORGANISM: Human
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(86945)
OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13855

Query Match 37.0%; Score 147.8; DB 3; Length 86945;
Best Local Similarity 73.5%; Pred. No. 2.9e-33;
Matches 208; Conservative 1; Mismatches 58; Indels 16; Gaps 1;

OY 81 ATGCTGTATATCCAGCACTTGGGAGGCCAAGTGGGCGGATCACTGAGGTCAAGAGA 140
DB 25003 ATGCTGTATATCCAGCACTTGGGAGGCCAAGTGGGCGGATCACTGAGGTCAAGAGA 25062
OY 141 TCGAGACCTCTCTGGCCCAACATGTTGAAACCCCGTCTTACTTAAATAATCAAAAAATAGC 200
DB 25063 TTGAGACCAAGCTTGGCCCAACATGTTGAAACCCCGTCTTACTTAAATAATCAAAAAATAGC 25122
OY 201 TGGGATGATGGGACACACCTGTAGTCCAGCTACTCAGAGCCGAGATTGCAAGTGGC 260
DB 25123 TGGGATGATGGGACACACCTGTAGTCCAGCTACTCAGAGCCGAGATTGCAAGTGGC 25182
OY 261 TGAGATCGCAGAGTGAGCCGAATCAAGAT-----CACAGAGTGAGCA 304
DB 25183 CTGGAGGCGAGAGGTGCGAGTGAGCTGAGATGTGCGATTGTCACAGCTGGGCAACA 25242
OY 305 GAGTGAGACCCGCTCTCAAAAACAACAACAAAAA 347
DB 25243 GTGTGAGACTCCATCTCAAAAAGAATAAATAAATAAATAA 25285

RESULT 40

```
US-09-949-016-13856
; Sequence 13856, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13856
; LENGTH: 86945
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(86945)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13856

Query Match      37.0%; Score 147.8; DB 3; Length 86945;
Best Local Similarity 73.5%; Pred. No. 2.9e-33;
Matches 208; Conservative 1; Mismatches 58; Indels 16; Gaps 1;

QY 81 ATGCTGTAATCCGACACTTCGGAGGCGCAAGTGGCGGATCACTGAGGTCAAGAGA 140
DB 25003 ATGCTGTAATCCGACACTTCGGAGGCGCAAGTGGCGGATCACTGAGGTCAAGAGA 140
QY 141 TCGAGACCATCTGGCCAACTGTGTAAACCCCTCTTACTTAAATAATCAAAAAATAGC 200
DB 25003 TCGAGACCATCTGGCCAACTGTGTAAACCCCTCTTACTTAAATAATCAAAAAATAGC 200
QY 201 TGGGCGATGTGGGACACACCTGTAGTCCAGCTACTCAGAGCCGGAATTCAGTGAAC 260
DB 25123 TGGGCGATGTGGGACACACCTGTAGTCCAGCTACTCAGAGCCGGAATTCAGTGAAC 25182
QY 261 TGAAGTCCAGAGTGAAGCCGAATCAAGAT-----CACAGAGTGAACA 304
DB 25183 CTGGAGGCGAGAGTTGGAGTGAAGCTGAGATTGTGCCATTGACTCCAGCTGGGCAACA 25242
QY 305 GAGTGAGACKCGCTCTCAAAAACAACAACAAAAAACA 347
DB 25243 GTGTGAGACTCATCTCAAAAAGAATAAATAAATAATA 25285

RESULT 41
US-09-949-016-13857
; Sequence 13857, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13857
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; LENGTH: 86945
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(86945)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13857

Query Match      37.0%; Score 147.8; DB 3; Length 86945;
Best Local Similarity 73.5%; Pred. No. 2.9e-33;
Matches 208; Conservative 1; Mismatches 58; Indels 16; Gaps 1;

QY 81 ATGCTGTAATCCGACACTTCGGAGGCGCAAGTGGCGGATCACTGAGGTCAAGAGA 140
DB 25003 ATGCTGTAATCCGACACTTCGGAGGCGCAAGTGGCGGATCACTGAGGTCAAGAGA 140
QY 141 TCGAGACCATCTGGCCAACTGTGTAAACCCCTCTTACTTAAATAATCAAAAAATAGC 200
DB 25003 TCGAGACCATCTGGCCAACTGTGTAAACCCCTCTTACTTAAATAATCAAAAAATAGC 200
QY 201 TGGGCGATGTGGGACACACCTGTAGTCCAGCTACTCAGAGCCGGAATTCAGTGAAC 260
DB 25123 TGGGCGATGTGGGACACACCTGTAGTCCAGCTACTCAGAGCCGGAATTCAGTGAAC 25182
QY 261 TGAAGTCCAGAGTGAAGCCGAATCAAGAT-----CACAGAGTGAACA 304
DB 25183 CTGGAGGCGAGAGTTGGAGTGAAGCTGAGATTGTGCCATTGACTCCAGCTGGGCAACA 25242
QY 305 GAGTGAGACKCGCTCTCAAAAACAACAACAAAAAACA 347
DB 25243 GTGTGAGACTCATCTCAAAAAGAATAAATAAATAATA 25285

RESULT 42
US-09-949-016-13858
; Sequence 13858, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13858
; LENGTH: 86945
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(86945)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13858

Query Match      37.0%; Score 147.8; DB 3; Length 86945;
Best Local Similarity 73.5%; Pred. No. 2.9e-33;
Matches 208; Conservative 1; Mismatches 58; Indels 16; Gaps 1;

QY 81 ATGCTGTAATCCGACACTTCGGAGGCGCAAGTGGCGGATCACTGAGGTCAAGAGA 140
DB 25003 ATGCTGTAATCCGACACTTCGGAGGCGCAAGTGGCGGATCACTGAGGTCAAGAGA 140
QY 141 TCGAGACCATCTGGCCAACTGTGTAAACCCCTCTTACTTAAATAATCAAAAAATAGC 200
DB 25003 TCGAGACCATCTGGCCAACTGTGTAAACCCCTCTTACTTAAATAATCAAAAAATAGC 200
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Accession	Sequence	Position
Dh	TTGAGACGAGCTGCGCAACATGGTAAACCCGTCTCTAATTAAAAATACAAAAATGAGC	25122
Dh	25063	
Qy	TTGGCAGTGTGTGTGACACACACTGTATGTCCAGCTACTCAGAGCCGGAGATTGAGTAC	260
Dh	25123	
Qy	TTGGCAGTGTGTGTGTGACACACTGTATGTCCAGCTACTCAGAGCCGGAGATTGAGTAC	25182
Dh	261	
Qy	TTGAGATGSCAGTGTGAGCCCAATCACAGAT-----CACAGGTAGCA	304
Dh	25183	
Qy	CTGGAGAGCGAGAGGTTCACAGTACAGATTGGCCATTGTACTCCAGCTGGGCGACA	25242
Dh	305	
Qy	GAGTGAGACGACCGCTCTCAAAAAACAACAACAAAAA	347
Dh	25243	
Qy	GTGTGAGACTTCATCTCAAAAAAGATTTAAATTTAAATTTAA	25285

RESULT 43
 US-09-949-016-14022
 Sequence 14022, Application US/09949016
 Patent No. 6812339
 GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 FILE REFERENCE: C1001307
 CURRENT APPLICATION NUMBER: US/09/949,016
 CURRENT FILING DATE: 2000-04-14
 PRIOR APPLICATION NUMBER: 60/241,755
 PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/237,768
 PRIOR FILING DATE: 2000-10-03
 PRIOR APPLICATION NUMBER: 60/231,498
 PRIOR FILING DATE: 2000-09-08
 NUMBER OF SEQ ID NOS: 207012
 SOFTWARE: FASTSEQ for Windows Version 4.0
 SEQ ID NO 14022.
 LENGTH: 9798
 TYPE: DNA
 ORGANISM: Human
 US-09-949-016-14022

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Query Match Similarity: 36.9%; Score 147.6; DB 3; Length 9798;
Best Local Similarity: 75.4%; Pred. No. 1,4e-33;
Matches 199; Conservative 1; Mismatches 55; Indels 9; Gaps 1;

QY      84 CCTGTAATCCAGCACTTGGGAGGCCAAGGTGGCGGATCACTGAGGTCAAGAGATCG 143
DB      964 CCTGTAATCCCGGCACTTTGGGAGGCGCAAGGACGAGCGATTGCTTAGGCGCAGAGATTCA 1023

QY      144 AGACATCTGGGCGCAACATGGTGAACCCCGCTTTACTTAATAATCAAAAAATTAGCTGG 203
DB      1024 AGACCACTTGCGCCACATGTGTAACCCCGTCTCTACTTAATAATCAAAAAATTAGCCGG 1083

QY      204 GCATGTGTGGCACACACTGTAGTATCCAGCTACTACAGAGCCGGAGATTGCAGTGACTGA 263
DB      1084 ACATGTGTGGCAGCTGCTGTATATCCAGGTACTCAAGAGGTGGAGGTTGCAGTGAGCGGA 1143

QY      264 GATGCGAAGTGAAGCCGGAATACACAGATACACAGATGAGCAGAGTAGACCKCGTCTCAA 323
DB      1144 GATCACAGCCCTCGCACTCCAGCGCTGGTGA-----CAGAGCGAGACTCATCTCAA 1194

QY      324 AAACAAACAACAAAAACAAAAA 347
DB      1195 AAACGAAAAACAAAAACAGCACAA 1218

RESULT 44
US-09-949-016-12819
; Sequence 12819, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE. METHODS OF DETECTION AND USES THEREOF

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; FILE REFERENCE: C0001307
; CURRENT APPLICATION NUMBER: US/09/949.016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12819
; LENGTH: 9801
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12819

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Query Match	Score	DB	Length
Best Local Similarity	75.4%	Pred. No. 1,4e-33	
Matches	199	Conservative	1
		Mismatches	55
		Indels	9
		Gaps	1

QY	84	CCTGTAAATCCAGCACTTCGGGAGGCCAAGGTGGCGGATCACTGAGGTCAAGAGATCG	143
Db	964	CCTGTAAATCCCGCACTTGTGGGAAGCCAAAGCAGGTGCTTGAGAGCCAGAGATTCA	1022
QY	144	AGACCAATCCGTGGCCAACTGGTGAATCCCGCTTTTACTATAAAATACAAAAATATGCTGG	203
Db	1024	AGACCAGCTGGGCCCACTGTGTAAACCCGCTCTTACTATAAAATACAAAAATATGCGCG	108
QY	204	GCATGTGTGGCACACCTGTAGTCCCAAGCTACTCAGAGACCGGAGATTGCAGTGAAGTGA	263
Db	1084	ACATGTGTGGCAGCTGCTGTAAATCCCAAGTACTCAAGAGGTGGAGTTGCAGTGAAGCGGA	1144
QY	264	GATGCGAGAGTGAAGCCGAATCAACAGTCAAGAGTGAAGCAGAGTGAAGCAKCCGCTTCAA	323
Db	1144	GATACAGAGCCCTGCACTTCACAGCTGGGGA-----CAGAGGGAATCTCACTTCAA	119

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RESULT 45
US-09-936-271C-56
? Sequence 56 Application US/09936271C
? Patent No. 7022497
? GENERAL INFORMATION:
? APPLICANT: Youself, George M.
? APPLICANT: Diamandis, Eleftherios
? TITLE OF INVENTION: No. 7022497el Human Kalikrein-Like Genes
? FILE REFERENCE: WTSJUSA
CURRENT APPLICATION NUMBER: US/09/936,271C
CURRENT FILING DATE: 2001-09-10
PRIORITY APPLICATION NUMBER: PCT/CA00/00258
PRIORITY FILING DATE: 2000-03-09
PRIORITY APPLICATION NUMBER: US 60/124,260
PRIORITY FILING DATE: 1999-03-11
PRIORITY APPLICATION NUMBER: US 60/127,386
PRIORITY FILING DATE: 1999-04-01
PRIORITY APPLICATION NUMBER: US 60/144,919
PRIORITY FILING DATE: 1999-07-21
NUMBER OF SEQ ID NOS: 97
SOFTWARE: PatentIn version 3.2
SEQ ID NO 56
? LENGTH: 11820
? TYPE: DNA
? ORGANISM: Homo sapiens
US-09-936-271C-56

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Query Match	36.9%	Score 147.6;	DB 5;	Length 11820;
Best Local Similarity	75.4%	Pred. No. 1.5e-33;		
Matches 199; Conservative	1;	Mismatches 55;	Indels 9;	Gaps 1;


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OY 84 CCTGTAATCCAGACACTTGGAGAGCCAAAGTGGCGGATGACCTGAGGTGCAAGATCG 143
DB 2706 CCTGTAATCCAGACACTTGGAGAGCCAAAGTGGCGGATGAGCTTGAAGCCAGAGATTCA 2765
OY 144 AGACCATCTGGCCCAACATGTTGAAACCCCGCTTTACTTAATAAAATACAAAAATAGCTGG 203
DB 2766 AGACCATCTGGCCCAACATGTTGAAACCCCGCTTTACTTAATAAAATACAAAAATAGCTGG 2825
OY 204 GCATGTTGGGACACACCTGTAGTCCCACTACTCAGAGAGCCGAGATTGCGTAGCTGA 263
DB 2826 ACATGTTGGGACACCTGTAGTCCCACTACTCAGAGAGGTTGAGGTTGCGTAGAGCGGA 2885
OY 264 GATGCGAGAGTGAAGCCGAATTCACAGATCAGAGATGAGAGTGAAGCCCGCTTCAA 323
DB 2886 GATGCGAGAGTGAAGCCGAATTCACAGATCAGAGATGAGAGTGAAGCCCGCTTCAA 2936
OY 324 AAACACACACACACACACACACACACACACACACACACACACACACACACACACACAC 347
DB 2937 AAACACACACACACACACACACACACACACACACACACACACACACACACACACACAC 2960
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RESULT 46
US-09-949-016-12926/c
; Sequence 12926, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12926
; LENGTH: 26967
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-12926
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```
Query Match 36.9%; Score 147.4; DB 3; Length 26967;
Best Local Similarity 72.4%; Pred. No. 2.4e-33;
Matches 215; Conservative 1; Mismatches 57; Indels 24; Gaps 1;
OY 81 ATGCTGTATCCAGACACTTGGAGAGCCAAAGTGGCGGATGACCTGAGGTGCAAGAGA 140
DB 17200 ATGCTGTATCCAGACACTTGGAGAGCCAAAGTGGCGGATGACCTGAGGTGCAAGAGA 17141
OY 141 TCGAGACCATCTGGCCCAACATGTTGAAACCCCGCTTTACTTAATAAAATACAAAAATAGC 200
DB 17140 TCGAGACCATCTGGCCCAACATGTTGAAACCCCGCTTTACTTAATAAAATACAAAAATAGC 17081
OY 201 TGGGATGTTGGGACACACCTGTAGTCCCACTACTCAGAGAGCCGAGATTGCGTAGAGC 260
DB 17080 TGGGATGTTGGGACACACCTGTAGTCCCACTACTCAGAGAGGTTGAGGTTGCGTAGAGC 17021
OY 261 TGAAGTTCACAGATGAGCCGAATTCACAGATCAGAGATGAGAGTGAAGCCCGCTTCAA 297
DB 17020 TGAAGTTCACAGATGAGCCGAATTCACAGATCAGAGATGAGAGTGAAGCCCGCTTCAA 16961
OY 298 -GTGACGAGATGAGATCGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 353
DB 16960 GTGACGAGATGAGATCGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 16904
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RESULT 47
US-09-949-016-15831/c
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; Sequence 15831, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15831
; LENGTH: 35104
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-15831
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```
Query Match 36.9%; Score 147.4; DB 3; Length 35104;
Best Local Similarity 74.5%; Pred. No. 2.6e-33;
Matches 199; Conservative 0; Mismatches 66; Indels 2; Gaps 1;
OY 81 ATGCTGTATCCAGACACTTGGAGAGCCAAAGTGGCGGATGACCTGAGGTGCAAGAGA 140
DB 4645 ATGCTGTATCCAGACACTTGGAGAGCCAAAGTGGCGGATGAGCTTGAAGCCAGAGATTCA 4588
OY 141 TCGAGACCATCTGGCCCAACATGTTGAAACCCCGCTTTACTTAATAAAATACAAAAATAGC 200
DB 4587 TCGAGACCATCTGGCCCAACATGTTGAAACCCCGCTTTACTTAATAAAATACAAAAATAGC 4528
OY 201 TGGGATGTTGGGACACACCTGTAGTCCCACTACTCAGAGAGCCGAGATTGCGTAGAGC 260
DB 4527 TGGGATGTTGGGACACACCTGTAGTCCCACTACTCAGAGAGGTTGAGGTTGCGTAGAGC 4468
OY 261 TGAAGTTCACAGATGAGCCGAATTCACAGATCAGAGATGAGAGTGAAGCCCGCTTCAA 320
DB 4467 TGAAGTTCACAGATGAGCCGAATTCACAGATCAGAGATGAGAGTGAAGCCCGCTTCAA 4408
OY 321 CAAAACACACACACACACACACACACACACACACACACACACACACACACACACACACAC 347
DB 4407 CAAAACACACACACACACACACACACACACACACACACACACACACACACACACACAC 4381
```

```
RESULT 48
US-09-949-016-16792
; Sequence 16792, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16792
; LENGTH: 55114
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-16792
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```
Query Match 36.9%; Score 147.4; DB 3; Length 55114;
Best Local Similarity 68.4%; Pred. No. 3,1e-33;
Matches 225; Conservative 1; Mismatches 87; Indels 16; Gaps 1;

QY 43 TAAATAGACATTGTGAGCCGAGCATGACATGCTGCTGAAATGCTGTAATCCAGCACTTC
DB 51385 TACTAAAGAACATCCAGTTGGCCAGCGCAGATGGCTCAGCTGTAAATCCAGTACTTT 51444
QY 103 GGGAGGCCAAGTGGGGCGATCATCTGAGGTCAAGATGAGACCATCTCTGCCAAT 162
DB 51445 GGGAGGCCAAGTGGGGCGATCATCTGAGGTCAAGATGAGACCATCTCTGCCAAT 51504
QY 163 GGTGAACCCCGTCTTACTTAAATAATGAGAAATGCTGGGATGCTGGGCAACACCTG 222
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; Sequence 17565, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17565
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; ORGANISM: Human
US-09-949-016-17565

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; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
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US-09-949-016-13969

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QY 204 GCATGTTGGCAACAACCTGTAGTCCAGCTACTCAGAGCCGAGATGCGATGAGCTGA 263
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QY 264 GATGCGAG-----AGTGAAGCCGAATATCAAGATCAAGAGTGAAGAGTGAAGTGG 309
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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C 102	147.6	36.9	983	12	US-10-301-480-538078	Sequence 538078,
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ALIGNMENTS

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; Sequence 5648, Application US/10741601
; Publication No. US20040166519A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: STENOSIS, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: CL001500
; CURRENT APPLICATION NUMBER: US/10/741,601
; CURRENT FILING DATE: 2003-12-22
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; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 5648
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; ORGANISM: Homo sapiens
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; NAME/KEY: misc_feature
; LOCATION: (1)..(36805)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-10-741-601-5648

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301 AGCAGATGAGACCCCTCTCAAAAACAACAAAAAACCATAAGCAATG 360
DB AGCAGATGAGACCCCTCTCTCAAAAACAACAAAAAACCATAAGCAATG 27500
27500 AGCAGATGAGACCCCTCTCTCAAAAACAACAAAAAACCATAAGCAATG 27441
361 TCACATCGCGTCCCACTATTGACGAGACCAAAAG 400
DB TCACATCGCGTCCCACTATTGACGAGACCAAAAG 27440
27440 TCACATCGCGTCCCACTATTGACGAGACCAAAAG 27401

RESULT 2
US-10-741-600-17657/c
; Sequence 17657, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 17657
; LENGTH: 36805
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(36805)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-10-741-600-17657

Query Match 99.4%; Score 397.2; DB 9; Length 36805;
Best Local Similarity 99.2%; Pred. No. 2.2e-11;

Matches 397; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCAGGATCTCAGGATGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 60
 DB 27800 CCAGGATCTCAGGATGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 27741

QY 61 CCAGGATCTCAGGATGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 120
 DB 27740 CCAGGATCTCAGGATGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 27681

QY 121 GATCACTGAGGTCAAGAGATGAGACCATCTGGGCAACATGTGAAACCCCGTCTTTA 180
 DB 27680 GATCACTGAGGTCAAGAGATGAGACCATCTGGGCAACATGTGAAACCCCGTCTTTA 27621

QY 181 CTAATAATATCAAAAAATAGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 240
 DB 27620 CTAATAATATCAAAAAATAGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 27561

QY 241 AGCCGAGATTGCACTGAGTGAATCGAGAGTGGGCGCAATGACATGACAGAGTG 300
 DB 27560 AGCCGAGATTGCACTGAGTGAATCGAGAGTGGGCGCAATGACATGACAGAGTG 27501

QY 301 AGCAGAGTGAAGACCCGCTCTCAAAAAACAACAAAAACCAATTAAGACTTGT 360
 DB 27500 AGCAGAGTGAAGACCCGCTCTCAAAAAACAACAAAAACCAATTAAGACTTGT 27441

QY 361 TCCATCTGCGGTTCCAGACTATTGACAGAGACCAAAAG 400
 DB 27440 TCCATCTGCGGTTCCAGACTATTGACAGAGACCAAAAG 27401

RESULT 3
 US-10-741-601-5649/c
 ; Sequence 5649, Application US/10741601
 ; Publication No. US20040166519A1
 ; GENERAL INFORMATION:
 ; APPLICANT: CARGILL, Michele et al.
 ; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
 ; TITLE OF INVENTION: STENOSIS, METHODS OF DETECTION AND USES THEREOF
 ; FILE REFERENCE: CLO01500
 ; CURRENT APPLICATION NUMBER: US/10/741,601
 ; CURRENT FILING DATE: 2003-12-22
 ; NUMBER OF SEQ ID NOS: 26415
 ; SOFTWARE: FASTSEQ for Windows Version 4.0
 ; SEQ ID NO: 5649
 ; LENGTH: 75729
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: (1)...(75729)
 ; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
 US-10-741-601-5649

Query Match 99.4%; Score 397.2; DB 8; Length 75729;
 Best Local Similarity 99.2%; Pred. No. 3e-111; Indels 0; Gaps 0;
 Matches 397; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCAGGATCTCAGGATGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 60
 DB 59242 CCAGGATCTCAGGATGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 59183

QY 61 CCAGGATCTCAGGATGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 120
 DB 59182 CCAGGATCTCAGGATGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 59123

QY 121 GATCACTGAGGTCAAGAGATGAGACCATCTGGGCAACATGTGAAACCCCGTCTTTA 180
 DB 59122 GATCACTGAGGTCAAGAGATGAGACCATCTGGGCAACATGTGAAACCCCGTCTTTA 59063

QY 181 CTAATAATATCAAAAAATAGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 240
 DB 59062 CTAATAATATCAAAAAATAGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 59003

QY 241 AGCCGAGATTGCACTGAGTGAATCGAGAGTGGGCGCAATGACATGACAGAGTG 300
 DB 59002 AGCCGAGATTGCACTGAGTGAATCGAGAGTGGGCGCAATGACATGACAGAGTG 58943

QY 301 AGCAGAGTGAAGACCCGCTCTCAAAAAACAACAAAAACCAATTAAGACTTGT 360
 DB 58942 AGCAGAGTGAAGACCCGCTCTCAAAAAACAACAAAAACCAATTAAGACTTGT 58883

QY 361 TCCATCTGCGGTTCCAGACTATTGACAGAGACCAAAAG 400
 DB 58882 TCCATCTGCGGTTCCAGACTATTGACAGAGACCAAAAG 58843

RESULT 4
 US-10-741-600-17658/c
 ; Sequence 17658, Application US/10741600
 ; Publication No. US20050026169A1
 ; GENERAL INFORMATION:
 ; APPLICANT: CARGILL, Michele et al.
 ; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
 ; TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
 ; FILE REFERENCE: CLO01499
 ; CURRENT APPLICATION NUMBER: US/10/741,600
 ; CURRENT FILING DATE: 2003-12-22
 ; NUMBER OF SEQ ID NOS: 73997
 ; SOFTWARE: FASTSEQ for Windows Version 4.0
 ; SEQ ID NO: 17658
 ; LENGTH: 75729
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: (1)...(75729)
 ; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
 US-10-741-600-17658

Query Match 99.4%; Score 397.2; DB 9; Length 75729;
 Best Local Similarity 99.2%; Pred. No. 3e-111; Indels 0; Gaps 0;
 Matches 397; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 CCAGGATCTCAGGATGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 60
 DB 59242 CCAGGATCTCAGGATGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 59183

QY 61 CCAGGATCTCAGGATGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 120
 DB 59182 CCAGGATCTCAGGATGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 59123

QY 121 GATCACTGAGGTCAAGAGATGAGACCATCTGGGCAACATGTGAAACCCCGTCTTTA 180
 DB 59122 GATCACTGAGGTCAAGAGATGAGACCATCTGGGCAACATGTGAAACCCCGTCTTTA 59063

QY 181 CTAATAATATCAAAAAATAGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 240
 DB 59062 CTAATAATATCAAAAAATAGCTGGGCGCATGGGAAACCAATATTATTAAGACTTGTCCAG 59003

QY 241 AGCCGAGATTGCACTGAGTGAATCGAGAGTGGGCGCAATGACATGACAGAGTG 300
 DB 59002 AGCCGAGATTGCACTGAGTGAATCGAGAGTGGGCGCAATGACATGACAGAGTG 58943

QY 301 AGCAGAGTGAAGACCCGCTCTCAAAAAACAACAAAAACCAATTAAGACTTGT 360
 DB 58942 AGCAGAGTGAAGACCCGCTCTCAAAAAACAACAAAAACCAATTAAGACTTGT 58883

QY 361 TCCATCTGCGGTTCCAGACTATTGACAGAGACCAAAAG 400
 DB 58882 TCCATCTGCGGTTCCAGACTATTGACAGAGACCAAAAG 58843

RESULT 5
 US-10-741-601-13924/c
 ; Sequence 13924, Application US/10741601

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Publication No. US20040166519A1
GENERAL INFORMATION:
APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
FILE REFERENCE: CLO01500
CURRENT APPLICATION NUMBER: US/10/741,601
CURRENT FILING DATE: 2003-12-22
NUMBER OF SEQ ID NOS: 26415
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13924
LENGTH: 201
TYPE: DNA
ORGANISM: Homo sapiens
US-10-741-601-13924

Query Match
Best Local Similarity 49.8%; Score 199; DB 8; Length 201;
Best Local Similarity 99.0%; Pred. No. 5.9e-51;
Matches 199; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 27 ATGGAAACCCAAATTTAATAAGACATTGTCAAGCCAGGCAATGACACTGGCTGAATGCTT 86
DB 201 ATGGAAACCCAAATTTAATAAGACATTGTCAAGCCAGGCAATGACACTGGCTGAATGCTT 142
QY 87 GTAATCCAGCACTTCGGAGGCCCAAGGTGGCGGATCACTGAGGTCAAGAGATCGAGA 146
DB 141 GTAATCCAGCACTTCGGAGGCCCAAGGTGGCGGATCACTGAGGTCAAGAGATCGAGA 82
QY 147 CCATCTGGCCCAACATGCTGGAACCCCGCTTTACTTAATAAAATACAAAAATAGCTGGGCA 206
DB 81 CCATCTGGCCCAACATGCTGGAACCCCGCTTTACTTAATAAAATACAAAAATAGCTGGGCA 22
QY 207 TGGTGGCACACACCTGTAGTC 227
DB 21 TGGTGGCACACACCTGTAGTC 1

RESULT 6
US-10-741-601-14097/c
Sequence 14097, Application US/10741601
Publication No. US20040166519A1
GENERAL INFORMATION:
APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
FILE REFERENCE: CLO01500
CURRENT APPLICATION NUMBER: US/10/741,601
CURRENT FILING DATE: 2003-12-22
NUMBER OF SEQ ID NOS: 26415
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 14097
LENGTH: 201
TYPE: DNA
ORGANISM: Homo sapiens
US-10-741-601-14097

Query Match
Best Local Similarity 49.8%; Score 199; DB 8; Length 201;
Best Local Similarity 99.0%; Pred. No. 5.9e-51;
Matches 199; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 27 ATGGAAACCCAAATTTAATAAGACATTGTCAAGCCAGGCAATGACACTGGCTGAATGCTT 86
DB 201 ATGGAAACCCAAATTTAATAAGACATTGTCAAGCCAGGCAATGACACTGGCTGAATGCTT 142
QY 87 GTAATCCAGCACTTCGGAGGCCCAAGGTGGCGGATCACTGAGGTCAAGAGATCGAGA 146
DB 141 GTAATCCAGCACTTCGGAGGCCCAAGGTGGCGGATCACTGAGGTCAAGAGATCGAGA 82
QY 147 CCATCTGGCCCAACATGCTGGAACCCCGCTTTACTTAATAAAATACAAAAATAGCTGGGCA 206
DB 81 CCATCTGGCCCAACATGCTGGAACCCCGCTTTACTTAATAAAATACAAAAATAGCTGGGCA 22
QY 207 TGGTGGCACACACCTGTAGTC 227
DB 21 TGGTGGCACACACCTGTAGTC 1
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DB 21 TGGTGGCACACACCTGTAGTC 1

RESULT 7
US-10-741-600-35944/c
Sequence 35944, Application US/10741600
Publication No. US20050026169A1
GENERAL INFORMATION:
APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
FILE REFERENCE: CLO01499
CURRENT APPLICATION NUMBER: US/10/741,600
CURRENT FILING DATE: 2003-12-22
NUMBER OF SEQ ID NOS: 73997
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 35944
LENGTH: 201
TYPE: DNA
ORGANISM: Homo sapiens
US-10-741-600-35944

Query Match
Best Local Similarity 49.8%; Score 199; DB 9; Length 201;
Best Local Similarity 99.0%; Pred. No. 5.9e-51;
Matches 199; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 27 ATGGAAACCCAAATTTAATAAGACATTGTCAAGCCAGGCAATGACACTGGCTGAATGCTT 86
DB 201 ATGGAAACCCAAATTTAATAAGACATTGTCAAGCCAGGCAATGACACTGGCTGAATGCTT 142
QY 87 GTAATCCAGCACTTCGGAGGCCCAAGGTGGCGGATCACTGAGGTCAAGAGATCGAGA 146
DB 141 GTAATCCAGCACTTCGGAGGCCCAAGGTGGCGGATCACTGAGGTCAAGAGATCGAGA 82
QY 147 CCATCTGGCCCAACATGCTGGAACCCCGCTTTACTTAATAAAATACAAAAATAGCTGGGCA 206
DB 81 CCATCTGGCCCAACATGCTGGAACCCCGCTTTACTTAATAAAATACAAAAATAGCTGGGCA 22
QY 207 TGGTGGCACACACCTGTAGTC 227
DB 21 TGGTGGCACACACCTGTAGTC 1

RESULT 8
US-10-741-600-36121/c
Sequence 36121, Application US/10741600
Publication No. US20050026169A1
GENERAL INFORMATION:
APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CLO01499
CURRENT APPLICATION NUMBER: US/10/741,600
CURRENT FILING DATE: 2003-12-22
NUMBER OF SEQ ID NOS: 73997
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 36121
LENGTH: 201
TYPE: DNA
ORGANISM: Homo sapiens
US-10-741-600-36121

Query Match
Best Local Similarity 49.8%; Score 199; DB 9; Length 201;
Best Local Similarity 99.0%; Pred. No. 5.9e-51;
Matches 199; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 27 ATGGAAACCCAAATTTAATAAGACATTGTCAAGCCAGGCAATGACACTGGCTGAATGCTT 86
DB 201 ATGGAAACCCAAATTTAATAAGACATTGTCAAGCCAGGCAATGACACTGGCTGAATGCTT 142
QY 87 GTAATCCAGCACTTCGGAGGCCCAAGGTGGCGGATCACTGAGGTCAAGAGATCGAGA 146
DB 21 TGGTGGCACACACCTGTAGTC 1
```


DB 141 GGAATCCAGCACTTTGGAGGCCAAAGTGGCGGATCACTGAGGTCAAGAGATCGAGA 82
QY 147 CCATCTGGGCAACATGTGTAAACCCGCTTTACTAAAAATACAAAAATAGCTGGGCA 206
DB 81 CCATCTGGGCAACATGTGTAAACCCGCTTTACTAAAAATACAAAAATAGCTGGGCA 22
QY 207 TGTGGCAGACACCTGTAGTC 227
DB 21 TGTGGCAGACACCTGTAGTC 1

RESULT 9

US-10-741-601-13993/c
; Sequence 13993, Application US/10741601
; Publication No. US20040166519A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001500
; CURRENT APPLICATION NUMBER: US/10/741,601
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 26415
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13993.
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-741-601-13993

Query Match 49.3%; Score 197.2; DB 8; Length 201;
Best Local Similarity 99.0%; Pred. No. 2.1e-50;
Matches 196; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 203 GGCATGCTGGGCAACACCTGTGTAGTCCAGCTACTAGAGCGGAGATTGACGTAGCTG 262
DB 201 GGCATGCTGGGCAACACCTGTGTAGTCCAGCTACTAGAGCGGAGATTGACGTAGCTG 142
QY 263 AGATCGAGAGTGAAGCCGAAATCAAGATCAAGAGTGAAGAGTGAAGACTCCGCTTCA 322
DB 141 AGATCGAGAGTGAAGCCGAAATCAAGATCAAGAGTGAAGAGTGAAGACTCCGCTTCA 82
QY 333 AAAACACACACAAAAAACAATTAAGACATTTGTCATCTGCGGTTCCAGACTA 382
DB 81 AAAACACACACAAAAAACAATTAAGACATTTGTCATCTGCGGTTCCAGACTA 22
QY 383 TTGCAGAGAGCCAAAAG 400
DB 21 TTGCAGAGAGCCAAAAG 4

RESULT 10

US-10-741-601-14060/c
; Sequence 14060, Application US/10741601
; Publication No. US20040166519A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001500
; CURRENT APPLICATION NUMBER: US/10/741,601
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 26415
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14060
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-741-601-14060

Query Match 49.3%; Score 197.2; DB 8; Length 201;
Best Local Similarity 99.0%; Pred. No. 2.1e-50;
Matches 196; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 203 GGCATGCTGGGCAACACCTGTGTAGTCCAGCTACTAGAGCGGAGATTGACGTAGCTG 262
DB 201 GGCATGCTGGGCAACACCTGTGTAGTCCAGCTACTAGAGCGGAGATTGACGTAGCTG 142
QY 263 AGATCGAGAGTGAAGCCGAAATCAAGATCAAGAGTGAAGAGTGAAGACTCCGCTTCA 322
DB 141 AGATCGAGAGTGAAGCCGAAATCAAGATCAAGAGTGAAGAGTGAAGACTCCGCTTCA 82
QY 333 AAAACACACACAAAAAACAATTAAGACATTTGTCATCTGCGGTTCCAGACTA 382
DB 81 AAAACACACACAAAAAACAATTAAGACATTTGTCATCTGCGGTTCCAGACTA 22
QY 383 TTGCAGAGAGCCAAAAG 400
DB 21 TTGCAGAGAGCCAAAAG 4

RESULT 11

US-10-741-600-36017/c
; Sequence 36017, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 36017
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-741-600-36017

Query Match 49.3%; Score 197.2; DB 9; Length 201;
Best Local Similarity 99.0%; Pred. No. 2.1e-50;
Matches 196; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 203 GGCATGCTGGGCAACACCTGTGTAGTCCAGCTACTAGAGCGGAGATTGACGTAGCTG 262
DB 201 GGCATGCTGGGCAACACCTGTGTAGTCCAGCTACTAGAGCGGAGATTGACGTAGCTG 142
QY 263 AGATCGAGAGTGAAGCCGAAATCAAGATCAAGAGTGAAGAGTGAAGACTCCGCTTCA 322
DB 141 AGATCGAGAGTGAAGCCGAAATCAAGATCAAGAGTGAAGAGTGAAGACTCCGCTTCA 82
QY 333 AAAACACACACAAAAAACAATTAAGACATTTGTCATCTGCGGTTCCAGACTA 382
DB 81 AAAACACACACAAAAAACAATTAAGACATTTGTCATCTGCGGTTCCAGACTA 22
QY 383 TTGCAGAGAGCCAAAAG 400
DB 21 TTGCAGAGAGCCAAAAG 4

RESULT 12

US-10-741-600-36084/c
; Sequence 36084, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 36084
; LENGTH: 201


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US-10-741-600-36083/c
; Sequence 36083, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 36083
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-741-600-36083

Query Match          46.3% Score 185; DB 9; Length 201;
Best Local Similarity 99.5% Pred. No. 1.3e-46;
Matches 186; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 214 ACACACTGTAGTCCAGCTACTCTCAGAGCCGAGATTGCACTGAGTGCAGATCCAGAG 273
DB 201 ACACACTGTAGTCCAGCTACTCTCAGAGCCGAGATTGCACTGAGTGCAGATCCAGAG 142
QY 274 TGAGCCGAATTCACAGATCAGAGTGAAGAGTGAACACCCGCTCTCAAAAACAAAC 333
DB 141 TGAGCCGAATTCACAGATCAGAGTGAAGAGTGAACACCCGCTCTCAAAAACAAAC 82
QY 334 AAAAAACAAAAACCATTAAGCATTCGCGGTTCCCAAGCATTAAGCAGAGAGC 393
DB 81 AAAAAACAAAAACCATTAAGCATTCGCGGTTCCCAAGCATTAAGCAGAGAGC 22
QY 394 CAAAAAG 400
DB 21 CAAAAAG 15

RESULT 17
US-09-764-891-6505
; Sequence 6505, Application US/09764891
; Publication No. US20030077808A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC006
; CURRENT APPLICATION NUMBER: US/09/764,891
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 10231
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6505
; LENGTH: 16163
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-891-6505

Query Match          39.6% Score 158.4; DB 3; Length 16163;
Best Local Similarity 73.9% Pred. No. 1.2e-37;
Matches 201; Conservative 0; Mismatches 71; Indels 0; Gaps 0;

QY 76 GCTGAATGCTGTATATCCAGCACTTCGGAGGCCAAGTGGCGGATCACCTGAGTCA 135
DB 8172 GGTTCACGCCCTGTATATCCAGCACTTCGGAGGCCAAGTGGCGGATCACCTGAGTCA 8231
QY 136 AGAGATGAGACCAATCCTGCGCAACATGTAACCCCGCTCTTAATAAATAAATAA 195
DB 8232 GAGATTGAGATCAGTCTGGCCAAATGTAAACCCCGCTCTTAATAAATAAATAA 8291
QY 196 ATAGCTGGGCAATGTGGCAACACCTGTATGCCAGTACTCAGAGCCGAGATTTGAG 255
DB 8292 CCAGCTGGGTGTGTGTGATACCGCTGTATATCCAGCTACTGTGAGGCGAGTTGAG 8351
QY 316 CGTCTCAAAAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACA 347
DB 8412 GAAAAAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACA 8443

RESULT 19
US-09-997-722-16
; Sequence 16, Application US/09997722
; Publication No. US20040072154A1
; GENERAL INFORMATION:
; APPLICANT: Engelhard, Eric
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR CANCER
; FILE REFERENCE: A-71171/RMS/DCF
; CURRENT APPLICATION NUMBER: US/09/997,722
; CURRENT FILING DATE: 2001-11-30
; Prior application data removed - See file wrapper or Palm
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 301
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 96593
```

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QY 256 TGAGCTGATGCGCAGATGACCCGAATTCACAGATCAGAGTGAAGAGTGACAC 315
DB 8352 TGAGCCGAATTCACAGATGACCCGAATTCACAGATGAGAGTGTCTCTCCA 8411
QY 316 GGTCTCAAAAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACA 347
DB 8412 GAAAAAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACA 8443

RESULT 18
US-10-091-414-270
; Sequence 270, Application US/10091414
; Publication No. US20030224461A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P116C1
; CURRENT APPLICATION NUMBER: US/10/091,414
; CURRENT FILING DATE: 2002-03-07
; Prior application data removed - See file wrapper or Palm
; NUMBER OF SEQ ID NOS: 392
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 270
; LENGTH: 16163
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-091-414-270

Query Match          39.6% Score 158.4; DB 7; Length 16163;
Best Local Similarity 73.9% Pred. No. 1.2e-37;
Matches 201; Conservative 0; Mismatches 71; Indels 0; Gaps 0;

QY 76 GCTGAATGCTGTATATCCAGCACTTCGGAGGCCAAGTGGCGGATCACCTGAGTCA 135
DB 8172 GGTTCACGCCCTGTATATCCAGCACTTCGGAGGCCAAGTGGCGGATCACCTGAGTCA 8231
QY 136 AGAGATGAGACCAATCCTGCGCAACATGTAACCCCGCTCTTAATAAATAAATAA 195
DB 8232 GAGATTGAGATCAGTCTGGCCAAATGTAAACCCCGCTCTTAATAAATAAATAA 8291
QY 196 ATAGCTGGGCAATGTGGCAACACCTGTATGCCAGTACTCAGAGCCGAGATTTGAG 255
DB 8292 CCAGCTGGGTGTGTGTGATACCGCTGTATATCCAGCTACTGTGAGGCGAGTTGAG 8351
QY 256 TGAGCTGATGCGCAGATGACCCGAATTCACAGATCAGAGTGAAGAGTGACAC 315
DB 8352 TGAGCCGAATTCACAGATGACCCGAATTCACAGATGAGAGTGTCTCTCCA 8411
QY 316 CGTCTCAAAAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACA 347
DB 8412 GAAAAAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACA 8443
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US-10-301-480-577516

Query Match 39.4%; Score 157.4; DB 12; Length 635;
Best Local Similarity 77.2%; Pred. No. 6.9e-38;
Matches 206; Conservative 1; Mismatches 52; Indels 8; Gaps 1;

81 ATGCCGTATATCCAGCACTTCGGAGGCCAAGTGGGGGATCACTAGAGTCAGAGA 140
252 AGCGCTGTATATCCAGCACTTCGGAGGCCAAGTGGGGGATCACTAGAGTCAGAGA 311
141 TCGAGCCATCTCTGGGCAACATGTGTAAACCCCGCTTTACTTAAATAAATAAATAGC 200
312 TCAAGACCAAGCTGGGCAACATGTGTAAACCCCGCTTTACTTAAATAAATAAATAGC 371
201 TGGGATGGTGGGCAACATCTGTATGTCAGATCAAGATGAGAGCCGATTCAGATGAGC 260
372 TGGGATGTATGGGGGTATCTGTATCCAGCTACCTGGAGCGAGGATGGCGTGAAGC 431
261 TGAGATCGCAGAGTGAGCCGAATCAAGATCAAGATGAGAGCCGATTCAGATGAGC 320
432 CGAGATTCG-----TGCATTGCAACCCAGCTGGGCAAGAGCGAAATCTGTCT 483
321 CAAAAACAACAACAAAAA 347
484 CAAAAAAGAAAAAAGAAAA 510

RESULT 23

US-10-301-480-1190925
Sequence 1190925, Application US/10301480
Publication No. US20060057564A1
GENERAL INFORMATION:

APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
FILE REFERENCE: 108827.137
CURRENT APPLICATION NUMBER: US/10/301,480
CURRENT FILING DATE: 2002-11-21
PRIOR APPLICATION NUMBER: US 10/215,598
PRIOR FILING DATE: 2002-08-09
PRIOR APPLICATION NUMBER: US 60/311,695
PRIOR FILING DATE: 2001-08-10
NUMBER OF SEQ ID NOS: 1226818
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1190925
LENGTH: 635
TYPE: DNA
ORGANISM: Homo sapien
US-10-301-480-1190925

Query Match 39.4%; Score 157.4; DB 12; Length 635;
Best Local Similarity 77.2%; Pred. No. 6.9e-38;
Matches 206; Conservative 1; Mismatches 52; Indels 8; Gaps 1;

81 ATGCCGTATATCCAGCACTTCGGAGGCCAAGTGGGGGATCACTAGAGTCAGAGA 140
252 AGCGCTGTATATCCAGCACTTCGGAGGCCAAGTGGGGGATCACTAGAGTCAGAGA 311
141 TCGAGCCATCTCTGGGCAACATGTGTAAACCCCGCTTTACTTAAATAAATAAATAGC 200
312 TCAAGACCAAGCTGGGCAACATGTGTAAACCCCGCTTTACTTAAATAAATAAATAGC 371
201 TGGGATGGTGGGCAACATCTGTATGTCAGATCAAGATGAGAGCCGATTCAGATGAGC 260
372 TGGGATGTATGGGGGTATCTGTATCCAGCTACCTGGAGCGAGGATGGCGTGAAGC 431
261 TGAGATCGCAGAGTGAGCCGAATCAAGATCAAGATGAGAGCCGATTCAGATGAGC 320
432 CGAGATTCG-----TGCATTGCAACCCAGCTGGGCAAGAGCGAAATCTGTCT 483
321 CAAAAACAACAACAAAAA 347
484 CAAAAAAGAAAAAAGAAAA 510

RESULT 24

US-10-027-632-98771/c
Sequence 98771, Application US/10027632
Publication No. US20020198371A1
GENERAL INFORMATION:

APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
FILE REFERENCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: US 60/218,006
PRIOR FILING DATE: 2000-07-12
PRIOR APPLICATION NUMBER: US 60/198,676
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: US 60/193,483
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: US 60/185,218
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/167,363
PRIOR FILING DATE: 1999-11-23
PRIOR APPLICATION NUMBER: US 60/156,356
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 98771
LENGTH: 1963
TYPE: DNA
ORGANISM: Human
US-10-027-632-98771

Query Match 38.9%; Score 155.4; DB 6; Length 1963;
Best Local Similarity 72.6%; Pred. No. 4.5e-37;
Matches 217; Conservative 1; Mismatches 72; Indels 9; Gaps 1;

81 ATGCCGTATATCCAGCACTTCGGAGGCCAAGTGGGGGATCACTAGAGTCAGAGA 140
463 AGCGCTGTATATCCAGCACTTCGGAGGCCAAGTGGGGGATCACTAGAGTCAGAGA 404
141 TCGAGCCATCTCTGGGCAACATGTGTAAACCCCGCTTTACTTAAATAAATAAATAGC 200
403 TCGAGCCATCTCTGGGCAACATGTGTAAACCCCGCTTTACTTAAATAAATAAATAGC 344
201 TGGGATGGTGGGCAACATCTGTATGTCAGATCAAGATGAGAGCCGATTCAGATGAGC 260
343 CGGAGTGTGTGGGGTGGGCTGTATGTCAGATCACTAGAGGCCGAGTTGAGTGAAGC 284
261 TGAGATCGCAGAGTGAGCCGAATCAAGATCAAGATGAGAGCCGATTCAGATGAGC 320
283 CGAGACCAAGCTTTGCACTCCAGCTGGGGA-----CAGACGAGACTCTGTCT 233
321 CAAAAACAACAACAAAAA 379
232 CAACACAATTAACAAAAA 174

RESULT 25

US-10-027-632-98771/c
Sequence 98771, Application US/10027632
Publication No. US20030204075A9
GENERAL INFORMATION:

APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
FILE REFERENCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: US 60/218,006
PRIOR FILING DATE: 2000-07-12

```

PRIOR APPLICATION NUMBER: US 60/198,676
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: US 60/193,483
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: US 60/185,218
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/167,363
PRIOR FILING DATE: 1999-11-23
PRIOR APPLICATION NUMBER: US 60/156,358
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 98771
LENGTH: 1963
TYPE: DNA
ORGANISM: Human
US-10-027-632-98771
```

```

Query Match      38.9%; Score 155.4; DB 7; Length 1963;
Best Local Similarity 72.6%; Pred. No. 4.5e-37;
Matches 217; Conservative 1; Mismatches 72; Indels 9; Gaps 1;
```

```

Qy 81 ATGCTGTAATCCCGACACTTCGGAGGCGCAAGTGGGCGATCACTGAGTCAAGAGA 140
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 463 ACGCTTAATCCCGACACTTCGGAGGCGCAAGTGGGCGATCACTGAGGCGAGGAT 404
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 141 TCGAGACCATCTGCGCAACATGTGAAACCCCGTCTTAACTAATAAATAAATAATAGC 200
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 403 TCGAGACCATCTGCGCAACATGTGAAACCCCGTCTTAACTAATAAATAAATAATAGC 344
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 201 TGGGATGATGACACACACCTCTACTCCAGTACTCAAGAGCCGAGATTCAGGTGAGC 260
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 343 CCGAGTGTGTGTGGGCGCTGTGTACTCCAGTACTCAAGAGCCGAGATTCAGGTGAGC 284
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 261 TGAAGTCCAGAGTGAAGCCGAATACAGATCAAGATGAGAGAGTGAACKCCGTCT 320
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 263 CGAGACCAAGCTTTGCACTCCAGCTGGGCGA-----CAGAGGAGACTGTCT 233
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 321 CAAAAACAACAACAAAAACAAATTAAGACATTTGCTCATCTGCGGTTCCGAGA 379
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 232 CAACAACAATAACAAAAAGAAACAAGTGAAGGTCTTGAGTTGGGCTCAGA 174
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

```

RESULT 26
US-10-087-192-760/c
Sequence 760, Application US/10087192
Publication No. US20020182586A1
GENERAL INFORMATION:
```

```

APPLICANT: Morris, David W.
APPLICANT: Engelhard, Eric K.
TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
FILE REFERENCE: 529452000122
CURRENT APPLICATION NUMBER: US/10/087,192
PRIOR FILING DATE: 2002-03-01
PRIOR APPLICATION NUMBER: US 09/747,377
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: US 09/798,586
PRIOR FILING DATE: 2001-03-02
NUMBER OF SEQ ID NOS: 2059
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 760
LENGTH: 31898
TYPE: DNA
ORGANISM: Homo sapiens
US-10-087-192-760
```

```

Query Match      38.9%; Score 155.4; DB 6; Length 31898;
Best Local Similarity 72.6%; Pred. No. 1.4e-36;
Matches 217; Conservative 1; Mismatches 72; Indels 9; Gaps 1;
```

```

Qy 81 ATGCTGTAATCCCGACACTTCGGAGGCGCAAGTGGGCGATCACTGAGTCAAGAGA 140
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 30243 ACGCTTAATCCCGACACTTCGGAGGCGCAAGTGGGCGATCACTGAGGCGAGGAT 30184
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 141 TCGAGACCATCTGCGCAACATGTGAAACCCCGTCTTAACTAATAAATAAATAATAGC 200
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 30183 TCGAGACCATCTGCGCAACATGTGAAACCCCGTCTTAACTAATAAATAAATAATAGC 30124
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 201 TGGGATGATGACACACACCTCTACTCCAGTACTCAAGAGCCGAGATTCAGGTGAGC 260
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 30123 CCGAGTGTGTGTGGGCGCTGTGTACTCCAGTACTCAAGAGCCGAGATTCAGGTGAGC 30064
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 261 TGAAGTCCAGAGTGAAGCCGAATACAGATCAAGATGAGAGAGTGAACKCCGTCT 320
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 30063 CGAGACCAAGCTTTGCACTCCAGCTGGGCGA-----CAGAGGAGACTGTCT 30013
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 321 CAAAAACAACAACAAAAACAAATTAAGACATTTGCTCATCTGCGGTTCCGAGA 379
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 30012 CAACAACAATAACAAAAAGAAACAAGTGAAGGTCTTGAGTTGGGCTCAGA 29954
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

```

RESULT 27
US-09-925-065A-532789/c
Sequence 532789, Application US/09925065A
Publication No. US20040181048A1
GENERAL INFORMATION:
```

```

APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single
FILE REFERENCE: 108827.135
CURRENT APPLICATION NUMBER: US/09/925,065A
PRIOR FILING DATE: 2001-08-08
CURRENT FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: US 60/243,096
PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 60/252,147
PRIOR FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: US 60/250,092
PRIOR FILING DATE: 2000-11-30
PRIOR APPLICATION NUMBER: US 60/261,766
PRIOR FILING DATE: 2001-01-16
PRIOR APPLICATION NUMBER: US 60/289,846
PRIOR FILING DATE: 2001-05-09
NUMBER OF SEQ ID NOS: 957086
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 532789
LENGTH: 614
TYPE: DNA
ORGANISM: Homo sapiens
US-09-925-065A-532789
```

```

Query Match      38.7%; Score 154.8; DB 4; Length 614;
Best Local Similarity 70.3%; Pred. No. 4.3e-37;
Matches 218; Conservative 2; Mismatches 89; Indels 1; Gaps 1;
```

```

Qy 48 AGACATTGTGAGCGCCAGCATGACATGCTGAATGCCCTGTAACTCCAGCACTTCGGAG 107
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 614 AGAAACAGTGTGAGCGCGCGGTGGGTGGTGCACACTGTAACTCCAGCACTTCGGAG 555
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 108 GCCAAGTGGGCGGATCACTGAGGTCAAGATTCAGACCATCTGCGCAACATGTGCA 167
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 554 GCCAAGTGGGCGGATCCCTGAGATCGAGGTTGACACCAAGCTGGCCAAATGGGCA 495
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 168 AACCCGCTTTTAACTAATAAATAAATAAATAGTGGGATGGTGGCACACCTGTAGTC 227
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 494 AACCCATCTTACTTAATAAATAAATAAATAGTGGATGTGTGTGGCAGGTGCTATATC 435
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 228 CCAAGTACTCAGAGCCGAGATTCAGTGAAGTGAAGTGCAGAGTGAAGCCGAATGAC 287
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 434 CCAAGTACTCAGAGGCTGAGGAGAGATCTCTTGAACCTGGGAGCGGAGGTTGCAC 375
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 288 AGATTAAGATGAGCAGAGTGAAGTGAACKCCGTCTCAAAAACAACAACAACAAAAAAA 347
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 374 TCAAGCTGGGAGA-CAGAGGAAGACTGTCTCAAAAACAAAAACAAAAACAAAAAAA 316
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```



```
Query Match      38.3%; Score 153; DB 12; Length 984;
Best Local Similarity 71.5%; Pred. No. 1.9e-36;
Matches 201; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

QY 81 ATGCTGTAAATCCGACCACTTGGGAGGCGCAAGTGGGGATCACTGAGTCAAGAGA 140
DB 225 ATGCTGTAAATCCGACCACTTGGGAGGCGCAAGTGGGGATCACTGAGTCAAGAGA 284
QY 141 TCGAGACCACTCTGGGCAACATGTAAGCCCGCTTTACTTAAATAATCAAAAAATAGC 200
DB 225 TCGAGACCACTCTGGGCAACATGTAAGCCCGCTTTACTTAAATAATCAAAAAATAGC 344
QY 201 TGGGCACTGTGGGCAACACCTGTAGTCCAGCTACTCAGAGACCGGAGATTGCAAGTAC 260
DB 345 CAGGATGAGTGGGCAACCTGTAAATCCAGCTACTCAGAGAGGCTGAGACAGAGAAATTA 404
QY 261 TGAAGTCCGAGAGTGAAGCCGAATATCAAGATCAAGAGTGAAGAGTGAAGACCCGCT 320
DB 405 CGTGAAGTTCAGTGAAGTGAAGTCAAGCCCACTGCACTCAGCTTGAAGGAGCAGAGAAATG 464
QY 321 CAAAAACAACAACAAAAAACAATAAAGCAATTTCT 361
DB 465 CTCTGTCTCAAAAAAATAAATAAATTAAGTGGGCAATAGT 505

RESULT 34
US-09-764-891-7647/c
; Sequence 7647, Application US/09764891
; Publication No. US20030077808A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC006
; CURRENT APPLICATION NUMBER: US/09/764,891
; CURRENT FILING DATE: 2001-01-17
; PRIOR APPLICATION data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 10231
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7647
; LENGTH: 4388
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-891-7647

Query Match      38.1%; Score 152.4; DB 3; Length 4388;
Best Local Similarity 76.5%; Pred. No. 5.3e-36;
Matches 202; Conservative 1; Mismatches 52; Indels 9; Gaps 1;

QY 81 ATGCTGTAAATCCGACCACTTGGGAGGCGCAAGTGGGGATCACTGAGTCAAGAGA 140
DB 1275 AAGCTGTAAATCCGACCACTTGGGAGGCGCAAGTGGGGATCACTGAGTCAAGAGA 1216
QY 141 TCGAGACCACTCTGGGCAACATGTAAGCCCGCTTTACTTAAATAATCAAAAAATAGC 200
DB 1215 TCGAGACCACTCTGGGCAACATGTAAGCCCGCTTTACTTAAATAATCAAAAAATAGC 1156
QY 201 TGGGCACTGTGGGCAACACCTGTAGTCCAGCTACTCAGAGACCGGAGATTGCAAGTAC 260
DB 1155 CGCAGTGTGGGCGCGCGCTGTAAATCCAGCTACTCAGAGAGGCGGAGTGGCGAGC 1096
QY 261 TGAAGTCCGAGAGTGAAGCCGAATATCAAGATCAAGAGTGAAGAGTGAAGACCCGCT 320
DB 1095 AGAGATGTGCTGCAATTCAGCTTGGGCGA-----CACAGGAGAGCTCCGCT 1045
QY 321 CAAAAACAACAACAAAAAACAATAAAGCAATTTCT 344
DB 1044 CAAAAAATAAATAAATAAATAAATAAATAAATAA 1021

RESULT 35
US-09-967-768A-314/c
; Sequence 314, Application US/09967768A
; Patent No. US2002015087A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Augustus, Meena
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signat
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-72
; CURRENT APPLICATION NUMBER: US/09/967,768A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/60/236,109
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,034
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,111
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 325
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 314
; LENGTH: 174424
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-967-768A-314

Query Match      38.0%; Score 152; DB 3; Length 174424;
Best Local Similarity 71.8%; Pred. No. 3e-35;
Matches 214; Conservative 0; Mismatches 80; Indels 4; Gaps 1;

QY 6 TACTCAGCCATGTGCTGGGCAATGGAACCAATATTAATPAGACATTGTCAGGCCAGG 65
DB 48438 TCTTCAGGTGTCTGTGTATCTTGTGTCTTCTCATATTTAAGATAGGGGCGCTGGG 48379
QY 66 CATGACACTGGCTGAATGCTGTATCCACACCTTGGGAGGCCAAGTGGCGGATCA 125
DB 48378 CATGCA-----GCTCATGCTGTAAATCCCAACCTTGGGAGGCCAAGTGGCGGATCA 48323
QY 126 CTTGAGGTCAAGAGATGAGACCATCTGCGCAACATGTAAGAACCCCGCTTTACTTAA 185
DB 48322 CTTGAGGTCAAGAGATGAGACCATCTGCGCAACATGTAAGAACCCCGCTTTACTTAA 48263
QY 186 AATACAAAAAATAGCTGGGCGATGTTGGGCAACACCTGATGCTCCAGCTACTCAGAGCGG 245
DB 48262 AATACAAAAAATAGCTGGGCGATGTTGGGCAACACCTGATGCTCCAGCTACTTGGGAGCCT 48203
QY 246 GAGATTCAGTGAAGCTGAGATCCGAGAGTGGCGGAATATCAGATCAAGAGTGAAGC 303
DB 48202 GAGGACAGAGATGCTTGAATCCGAGAGTGAAGATTCAGTGAAGCCGAGATTTGTGC 48145

RESULT 36
US-09-960-706-969/c
; Sequence 969, Application US/09960706
; Publication No. US20030134280A1
; GENERAL INFORMATION:
; APPLICANT: Mungier, William B.
; TITLE OF INVENTION: Identifying Drugs for and Diagnosis of Benign Prostatic Hyperplas
; FILE REFERENCE: 44921-5029-01US
; CURRENT APPLICATION NUMBER: US/09/960,706
; CURRENT FILING DATE: 2001-09-24
; PRIOR APPLICATION NUMBER: 60/223,323
; PRIOR FILING DATE: 2000-08-07
; PRIOR APPLICATION NUMBER: 09/873,319
; PRIOR FILING DATE: 2001-06-05
; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 969
; LENGTH: 174424
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20030134280A1 US2112
US-09-960-706-969

Query Match      38.0%; Score 152; DB 3; Length 174424;
Best Local Similarity 71.8%; Pred. No. 3e-35;
```

```
Matches 214; Conservative 0; Mismatches 80; Indels 4; Gaps 1;
QY 6 TACTCAGCCATGTCCTGGCCCATGGAAACCAATATTATTAAGACATTGTCAAGCCAG 65
DB 48438 TCCCTCAGGTGTCTGGTATCTTGTGTCTTCTCATATTAAAGGGGCGAGCTGGG 48379
QY 66 CATGACACTGGCTGAATGCTGTATCCAGCACTTGGGGGCGAAGTGGGGGATCA 125
DB 48378 CATGGCA----GCTCATGCTCTGTATTCACACACTTTGGAGGCGGAAGTGGGATCA 48323
QY 126 CTTGAGGTCAAGAGATCGAGACCATCTGGCCAAATGTTGAAACCCCGTCTTACTAAA 185
DB 48322 CTTGAGGTCAAGAGATCAAGTCCATCTGGCCAAATGTTGAAACCCCGTCTTACTAAA 48263
QY 186 AATTCAAAAAATTAGCTGGGCGATGGTGCAACACCTGTAGTCCCACTACTCAGAGCCG 245
DB 48262 AATTCAAAAAATTAGCTGGGCGATGGTGCAACACCTGTAGTCCCACTACTCAGAGCCG 48203
QY 246 GAGATTGCAGTGAAGTGAATCGGAGAGTGGAGCCGAATATCAGATCAAGATGAGC 303
DB 48202 GAGGCAAGAGAAATCGTTGAATCCGGAGGTGGAGATTGCAGTGACCGAGATTGTGC 48145

RESULT 37
US-10-843-641A-6459/c
; Sequence 6459, Application US/10843641A
; Publication No. US20050064454A1
; GENERAL INFORMATION:
; APPLICANT: Avalon Pharmaceuticals, Inc.
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
; FILE OF INVENTION: Signature Gene Sets
; FILE REFERENCE: 689290-189
; CURRENT APPLICATION NUMBER: US/10/843, 641A
; CURRENT FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: US/09/873,367
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US/09/954,531
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/09/954,456
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/962,436
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/962,832
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/964,824
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/09/967,768
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/09/968,007
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/969,347
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/969,708
; PRIOR FILING DATE: 2001-10-03
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 8447
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6459
; LENGTH: 174424
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-843-641A-6459

Query Match 38.0%; Score 152; DB 10; Length 174424;
Best Local Similarity 71.8%; Pred. No. 3e-35;
Matches 214; Conservative 0; Mismatches 80; Indels 4; Gaps 1;
QY 6 TACTCAGCCATGTCCTGGCCCATGGAAACCAATATTATTAAGACATTGTCAAGCCAG 65
DB 48438 TCCCTCAGGTGTCTGGTATCTTGTGTCTTCTCATATTAAAGATGGGCGAGCTGGG 48379
QY 66 CATGACACTGGCTGAATGCTGTATCCAGCACTTGGGGGCGAAGTGGGGGATCA 125
DB 48378 CATGGCA----GCTCATGCTCTGTATTCACACACTTTGGAGGCGGAAGTGGGATCA 48323

RESULT 39
US-10-756-149-2215/c
; Sequence 2215, Application US/10756149
; Publication No. US20050181375A1
; GENERAL INFORMATION:
; APPLICANT: Zlotnik, Albert
; APPLICANT: Aziz, Natasha
; TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND
; FILE OF INVENTION: METHODS OF SCREENING FOR MODULATORS OF METASTATIC CANCER
; FILE REFERENCE: file
; CURRENT APPLICATION NUMBER: US/10/723, 860
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: 60/429,739
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 8393
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2392
; LENGTH: 181343
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-723-860-2392

Query Match 38.0%; Score 152; DB 9; Length 181343;
Best Local Similarity 71.8%; Pred. No. 3.1e-35;
Matches 214; Conservative 0; Mismatches 80; Indels 4; Gaps 1;
QY 6 TACTCAGCCATGTCCTGGCCCATGGAAACCAATATTATTAAGACATTGTCAAGCCAG 65
DB 48439 TCCCTCAGGTGTCTGGTATCTTGTGTCTTCTCATATTAAAGATGGGCGAGCTGGG 48380
QY 66 CATGACACTGGCTGAATGCTGTATCCAGCACTTGGGGGCGAAGTGGGGGATCA 125
DB 48379 CATGGCA----GCTCATGCTCTGTATTCACACACTTTGGAGGCGGAAGTGGGATCA 48324
QY 126 CTTGAGGTCAAGAGATCGAGACCATCTGGCCAAATGTTGAAACCCCGTCTTACTAAA 185
DB 48322 CTTGAGGTCAAGAGATCAAGTCCATCTGGCCAAATGTTGAAACCCCGTCTTACTAAA 48264
QY 186 AATTCAAAAAATTAGCTGGGCGATGGTGCAACACCTGTAGTCCCACTACTCAGAGCCG 245
DB 48263 AATTCAAAAAATTAGCTGGGCGATGGTGCAACACCTGTAGTCCCACTACTCAGAGCCG 48204
QY 246 GAGATTGCAGTGAAGTGAATCGGAGAGTGGAGCCGAATATCAGATCAAGATGAGC 303
DB 48203 GAGGCAAGAGAAATCGTTGAATCCGGAGGTGGAGATTGCAGTGACCGAGATTGTGC 48146
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; CURRENT APPLICATION NUMBER: US/10/756,149
; CURRENT FILING DATE: 2004-01-12
; NUMBER OF SEQ ID NOS: 5818
; SOFTWARE: Patent version 3.2
; SEQ ID NO: 2215
; LENGTH: 181343
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-756-149-2215

Query Match      38.0%; Score 152; DB 10; Length 181343;
Best Local Similarity 71.8%; Pred. No. 3.1e-35;
Matches 214; Conservative 0; Mismatches 80; Indels 4; Gaps 1;

QY 6 TACTGACCATGTCTGCGCCATGGGAAACCCAAATTAATTAAGACATTGTGAGGCCAGG 65
DB 48439 TCCCTCAGGTGTCTGTGATCCCTGTGTGTCTCTCATATTAAAGATGGGCGAGCTGGG 48380

QY 66 CATGACACTGGCTGAATGCTGTAAATCCAGACCTTGGGAGGCGCAAGTGGCGGATCA 125
DB 48379 CATGGCA-----GCTCATGCTGTAAATCCCAACACTTTGGAGGCGGAGTGAATCA 48324

QY 126 CCTGAGGTCAAGATGAGACCATCTGTGGCCAGATGGTGAACCCCGTCTTTACTTAA 185
DB 48323 CCTGAGGTCAAGATGAGATCAATCTCTGTGGCCAGATGGTGAACCCCGTCTTTACTTAA 48264

QY 186 AATACAAAAAATGCTGGGCGATGTGGGACACACCTGTAGTCCAGCTACTCAGAGCCG 245
DB 48263 AATACAAAAAATGCTGGGCGATGTGGGACACACCTGTAGTCCAGCTACTCAGAGCCG 48204

QY 246 GAGATTGACGTGAGTGAAGATGACAGATGAGCCGAATCAACAGATCAAGAGTGAGC 303
DB 48203 GAGGACGAGAAATCCCTTGAATCCGAGAGTGAAGATGACAGTGAAGAGATTTGTGC 48146

RESULT 40
US-09-925-065A-45529
; Sequence 45529, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45529
; LENGTH: 599
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-45529

Query Match      37.9%; Score 151.6; DB 4; Length 599;
Best Local Similarity 74.2%; Pred. No. 4.2e-36;
Matches 224; Conservative 2; Mismatches 56; Indels 20; Gaps 2;

QY 83 GCGTGTATCCGACACTTTCGGAGGCGCAAGTGGCGGATCACTTGAGTCAAGATC 142
DB 2 GCGTGTATCCGACACTTTCGGAGGCGCTTAAGTGGCGGATCACTTGAGTCAAGATC 61

QY 143 GAGACATCTGTGGCAATGTAATCCCGTCTTAAATAAATAAATAAATAAATGACTG 202
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DB 62 GAGACCAAGCTGGCCAAATGTAATGTAATCCCTGTCTCTACTAATAAATAAATAAATGACCG 121
QY 203 GGCATGTGTGGCACACACCTGTAGTCCAGCTACTGAGAGCC-----GGAGATTGAGTGA 258
DB 122 GACATGTGTGGCACACACCTGTAGTCCAGCTACTGAGAGCGTGAAGGAGTGAATCACTTGA 181
QY 259 GGTGAGATCGCAGATGAGCGGAATTCAGATCA-----CAGAGTGA 302
DB 182 ACCCGGAGGAGAGAGTGTGAGTGAAGCCAGATCAAGCCACTGCACTTCAGCTGGGTGA 241
QY 303 CAGAGTGAAGCCGCTTCAAAAACAAACAAAACAAAACAAAACAAAACAAAACAAAAC 362
DB 242 CAGAGTGAAGCTCGTCTCAAAAACAAAACAAAACAAAACAAAACAAAACAAAAC 301

QY 363 CA 364
DB 302 CA 303

RESULT 41
US-09-925-065A-45529
; Sequence 45529, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45529
; LENGTH: 599
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-45529

Query Match      37.9%; Score 151.6; DB 5; Length 599;
Best Local Similarity 74.2%; Pred. No. 4.2e-36;
Matches 224; Conservative 2; Mismatches 56; Indels 20; Gaps 2;

QY 83 GCGTGTATCCGACACTTTCGGAGGCGCAAGTGGCGGATCACTTGAGTCAAGATC 142
DB 2 GCGTGTATCCGACACTTTCGGAGGCGCTTAAGTGGCGGATCACTTGAGTCAAGATC 61

QY 143 GAGACATCTGTGGCAATGTAATCCCGTCTTAAATAAATAAATAAATAAATAAATGACTG 202
DB 62 GAGACATCTGTGGCAATGTAATCCCGTCTTAAATAAATAAATAAATAAATAAATGACTG 121

QY 203 GGCATGTGTGGCACACACCTGTAGTCCAGCTACTGAGAGCC-----GGAGATTGAGTGA 258
DB 122 GACATGTGTGGCACACACCTGTAGTCCAGCTACTGAGAGCGTGAAGGAGTGAATCACTTGA 181

QY 259 GGTGAGATCGCAGATGAGCGGAATTCAGATCA-----CAGAGTGA 302
DB 182 ACCCGGAGGAGAGAGTGTGAGTGAAGCCAGATCAAGCCACTGCACTTCAGCTGGGTGA 241

QY 303 CAGAGTGAAGCCGCTTCAAAAACAAACAAAACAAAACAAAACAAAACAAAACAAAAC 362
DB 242 CAGAGTGAAGCTCGTCTCAAAAACAAAACAAAACAAAACAAAACAAAACAAAAC 301
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```
QY 363 CA 364
DB 302 CA 303

RESULT 42
US-10-301-480-146767
; Sequence 146767, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; SOFTWARE: FastSeq for Windows Version 4.0
; NUMBER OF SEQ ID NOS: 1226818
; SEQ ID NO 146767
; LENGTH: 599
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-146767

Query Match      37.9%; Score 151.6; DB 12; Length 599;
Best Local Similarity 74.2%; Pred. No. 4.2e-36;
Matches 224; Conservative 2; Mismatches 56; Indels 20; Gaps 2;

QY 83 GCCTGTATCCACAGCTTGGGAGGCGCAAGTGGGCGGATCAGTGAAGTCAAGATC 142
DB 2 GCCTGTATCCACAGCTTGGGAGGCGCAAGTGGGCGGATCAGTGAAGTCAAGATC 61

QY 143 GAGACCACTCTGGGCAACATGATGTAACCCCGTCTTTACTAAATAACAAAAATAGCTG 202
DB 62 GAGACCACTCTGGGCAACATGATGTAACCCCGTCTTTACTAAATAACAAAAATAGCTG 121

QY 203 GCGATGTGGGCAACACCTGTAGTCCAGCTACTCAGGAGCC---GGAGATTGCAATGA 258
DB 122 GACATGTGGGCAACACCTGTAGTCCAGCTACTCAGGAGCTGAGGAGATCAGTGA 181

QY 259 GCTAGATCGAGAGTGGAGCCGAATTCAGATCA-----CAGAGTAG 302
DB 182 ACCRGGAGGAGAGGTTGAGTGAGCCAGATCAGCCACTGCACCTTCACTGGGTGA 241

QY 303 CAGAGTGAGACKCGCTCTCAAAAAACAACAACAAAAAACAATAAGACATTGTC 362
DB 242 CAGAGTGAGACTCGCTCTCAAAAAACAACAACAAAAAACAATAAGACAAAAAC 301

QY 363 CA 364
DB 302 CA 303

RESULT 43
US-10-301-480-760176
; Sequence 760176, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; SOFTWARE: FastSeq for Windows Version 4.0
; NUMBER OF SEQ ID NOS: 1226818
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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 760176
; LENGTH: 599
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-760176

Query Match      37.9%; Score 151.6; DB 12; Length 599;
Best Local Similarity 74.2%; Pred. No. 4.2e-36;
Matches 224; Conservative 2; Mismatches 56; Indels 20; Gaps 2;

QY 83 GCCTGTATCCACAGCTTGGGAGGCGCAAGTGGGCGGATCAGTGAAGTCAAGATC 142
DB 2 GCCTGTATCCACAGCTTGGGAGGCGCAAGTGGGCGGATCAGTGAAGTCAAGATC 61

QY 143 GAGACCACTCTGGGCAACATGATGTAACCCCGTCTTTACTAAATAACAAAAATAGCTG 202
DB 62 GAGACCACTCTGGGCAACATGATGTAACCCCGTCTTTACTAAATAACAAAAATAGCTG 121

QY 203 GCGATGTGGGCAACACCTGTAGTCCAGCTACTCAGGAGCC---GGAGATTGCAATGA 258
DB 122 GACATGTGGGCAACACCTGTAGTCCAGCTACTCAGGAGCTGAGGAGATCAGTGA 181

QY 259 GCTAGATCGAGAGTGGAGCCGAATTCAGATCA-----CAGAGTAG 302
DB 182 ACCRGGAGGAGAGGTTGAGTGAGCCAGATCAGCCACTGCACCTTCACTGGGTGA 241

QY 303 CAGAGTGAGACKCGCTCTCAAAAAACAACAACAAAAAACAATAAGACATTGTC 362
DB 242 CAGAGTGAGACTCGCTCTCAAAAAACAACAACAAAAAACAATAAGACAAAAAC 301

QY 363 CA 364
DB 302 CA 303

RESULT 44
US-10-450-826-93/c
; Sequence 93, Application US/10450826
; Publication No. US20040101818A1
; GENERAL INFORMATION:
; APPLICANT: JI, Darren
; APPLICANT: Axelrod, Douglas W.
; APPLICANT: Cook, Jonathan S.
; APPLICANT: Eistein, Richard
; APPLICANT: Houghton, Adam
; APPLICANT: Mertz, Lawrence
; TITLE OF INVENTION: Gene Expression Profiles Associated with Osteoblast Differentiation
; FILE REFERENCE: 044921-5039-WO
; CURRENT APPLICATION NUMBER: US/10/450,826
; CURRENT FILING DATE: 2003-06-18
; PRIOR APPLICATION NUMBER: US 60/255,882
; PRIOR FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: US 60/285,691
; PRIOR FILING DATE: 2001-04-24
; NUMBER OF SEQ ID NOS: 149
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 93
; LENGTH: 169739
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. AC005082
US-10-450-826-93

Query Match      37.9%; Score 151.4; DB 8; Length 169739;
Best Local Similarity 70.9%; Pred. No. 4.6e-35;
Matches 229; Conservative 1; Mismatches 87; Indels 6; Gaps 2;

QY 30 GGAACCAATATTAATTAAGACATTGTCAGGCGCATGACACTGCTGAATGCTGTA 89
DB 125892 GGTAAAGAAATCTTAAGTTAAAGATCTAAAGTTGGCCAGGCAAGTGCTAACGCTGTA 125833
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Query Match	37.8%	Score 151	DB 9	Length 133300
Best Local Similarity	77.3%	Pred. No. 5.6e-35		
Matches 211	Conservative 1	Mismatches 51	Indels 10	Gaps 2
QY	81	ATCGCTGTAAATCCGAGCACTTCGGGAGGCCAAGGTGGGCGGATCACTGAGGTCAAGAGA	140	
DB	8926	ACGCTGTAAATCCAGCACTTTGGGAGGCCGAGGCGGGCGATCACTTGAGGTCAAGAGT	8985	
QY	141	TCGAGACCATCTGGCCAAACATGTGTAAACCCGCTTTACTTAAATAATACAAAAA-TAG	199	
DB	8986	TCGAGACCAAGCTGGCCCAAGATGGTGAATACCCCGCTTACTTAAATAATCAAAAAATTAG	9045	
QY	200	CTGGGCAATGGTGGCAACACTGTAGTCCAGCTACTCAGAGAGCCGAGATTTGCAGTAG	259	
DB	9046	CCGGGCGTGTGGGCGAGGCGCTGTAAATCCAGCTACTCAGGAGGCAAGAGTTGCAGTAG	9105	
QY	260	CTGAGATTCGCAAGATGAGCCGAATTCACAGATTCACAGAGTGAAGCAAGTGAACKCCGTC	319	
DB	9106	CCGAGATCGCGTCACTGCACTCCAGCCCTGGGCGA-----CAGAGTGAAGCTCCGTC	9158	
QY	320	TCAAAAACAACAATAAAAAAATCAAAATCAATTA	352	
DB	9157	TCAGAGAAAAAAGAAAAAAGAAAAAAGAAATTA	9189	

```

US-09-764-860-797/C
RESULT 47
: Sequence 797, Application US/09764860
: Patent No. US20020094953A1
: GENERAL INFORMATION:
: APPLICANT: Rosen et al.,
: TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
: FILE REFERENCE: PC008
: CURRENT APPLICATION NUMBER: US/09/764,860
: PRIORITY FILING DATE: 2001-01-17
: Prior application data removed - consult PALM or file wrapper
: NUMBER OF SEQ ID NOS: 1198
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 797
: LENGTH: 32146
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-764-860-797

```

Query Match	37.7%	Score 150.6	DB 3	Length 32146
Best Local Similarity	68.5%	Pred. No. 4.2e-35		
Matches 224	Conservative 1	Mismatches 95	Indels 7	Gaps 1

OY	81	ATGCGCTTAAATCCGACACTTGGGAGGCCAGGTGGCGGATCATCCTGAGGTCAGAGAGA	140
2437	ACGCGCTTAAATGCTAGACACTTGGGAGGCCAGGCGGAGGATCATCTGAGGTGAGAGGT	2378	

PRIOR FILING DATE: 2000-08-22
PRIOR APPLICATION NUMBER: 60/225,759
PRIOR FILING DATE: 2000-08-14
PRIOR APPLICATION NUMBER: 60/225,213
PRIOR FILING DATE: 2000-08-14
PRIOR APPLICATION NUMBER: 60/227,182
PRIOR FILING DATE: 2000-08-22
PRIOR APPLICATION NUMBER: 60/225,214
PRIOR FILING DATE: 2000-08-14
PRIOR APPLICATION NUMBER: 60/235,836
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/230,438
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/215,135
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: 60/225,266
PRIOR FILING DATE: 2000-08-14
PRIOR APPLICATION NUMBER: 60/249,218
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,208
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,213
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,212
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,207
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,245
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,244
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,217
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,211
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,215
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,264
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,214
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,297
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/232,400
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/231,242
PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/232,081
PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/232,080
PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/231,414
PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/231,244
PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/233,064
PRIOR FILING DATE: 2000-09-14
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PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/232,397
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/232,399
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/232,401
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/241,808
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/241,826
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/241,786
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/241,221
PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/246,475
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 60/231,243
PRIOR FILING DATE: 2000-09-08

Query Match 37.7%; Score 150.6; DB 6; Length 32146;
Best Local Similarity 68.5%; Pred. No. 4.2e-35;
Matches 224; Conservative 1; Mismatches 95; Indels 7; Gaps 1;

QY 81 ATGCTGTATATCCAGACCTTCGGAGGCGCAAGGTGGCGGATCACTGAGTCAAGAGA 140
DB 2437 AGCGCTGTATATGCTAGCACTTTGGAGGCGCAAGGCGGAGATCACTTGAGTCAAGGT 2378
QY 141 TCGAGACCATCTGCGCAACATGTTGAACCCCGCTTTACTTAAATAACAAAATATGAC 200
DB 2377 TTGAGACCAAGCTGCGCAACATGTTGAACCCCGCTTTACTTAAATAACAAAATATGAC 2318
QY 201 TGGGATGATGCGACACACCTGTAGTCCAGCTACTCAGAG-----CCGAGATTGC 253
DB 2317 AGGCGATGTGCGGCGACCTGTAGTCCAGCTGTTGGAGACTGAGCCAGAGAAATTG 2258
QY 254 AGTGAGCTGAGATCGCAGAGTGAGCCGAATTCACAGATCAGAGTGAGAGAGC 313
DB 2257 CTGGAACCGGAGGCGAGGTTGCAATGAGCCGAGATTGTACTCTGCAATGCAGAGAC 2198
QY 314 KCCGTCTCAAAAACAACAACAAAACAAAACATATGACATTGTCATTCGCGTT 373
DB 2197 TCCGTCTCAAAAACAAAACAAAACAAAACAAAACATATGAGAGCAATAGGAGGA 2138
QY 374 CCCAGCTATTCAGAGAGCAACAAAAG 400
DB 2137 TCTCAGCAATATCTGAGATTATACAAAG 2111

RESULT 49
US-10-212-872-797/c
Sequence 797, Application US/10212872
Publication No. US20030215893A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PC008C2
CURRENT APPLICATION NUMBER: US/10/212,872
CURRENT FILING DATE: 2002-08-07
Prior application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 1198
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 797
LENGTH: 32146
TYPE: DNA
ORGANISM: Homo sapiens
US-10-212-872-797

Query Match 37.7%; Score 150.6; DB 7; Length 32146;
Best Local Similarity 68.5%; Pred. No. 4.2e-35;
Matches 224; Conservative 1; Mismatches 95; Indels 7; Gaps 1;
QY 81 ATGCTGTATATCCAGACCTTCGGAGGCGCAAGGTGGCGGATCACTGAGTCAAGAGA 140
DB 2437 AGCGCTGTATATGCTAGCACTTTGGAGGCGCAAGGCGGAGATCACTTGAGTCAAGGT 2378
QY 141 TCGAGACCATCTGCGCAACATGTTGAACCCCGCTTTACTTAAATAACAAAATATGAC 200
DB 2377 TTGAGACCAAGCTGCGCAACATGTTGAACCCCGCTTTACTTAAATAACAAAATATGAC 2318
QY 201 TGGGATGATGCGACACACCTGTAGTCCAGCTACTCAGAG-----CCGAGATTGC 253
DB 2317 AGGCGATGTGCGGCGACCTGTAGTCCAGCTGTTGGAGACTGAGCCAGAGAAATTG 2258
QY 254 AGTGAGCTGAGATCGCAGAGTGAGCCGAATTCACAGATCAGAGTGAGAGAGC 313
DB 2257 CTGGAACCGGAGGCGAGGTTGCAATGAGCCGAGATTGTACTCTGCAATGCAGAGAC 2198

QY	DQ	QY	DQ
314	KCGGTCTCAAAAACACACACAAAAAACAATTAAGCATTTGCTTCGGGTT	373	
2197	TCCGTCTCAAAAAAAAAAAAAAAAAAGATTAAGTAGACATTAAGGGGA	2138	
374	CCCAACTATTTCGAGAGACCAAAAG	400	
2137	TCTAGCAAAATACGTGATTAACTAAG	2111	

RESULT 50
US-09-893

US-09-893-348-9/c

; Sequence 9, Application US/09893348

Patent No. US20020072493A1

GENERAL INFORMATION ;

APPLICANT: EISENBACH-SCHWARTZ, Michal

APPLICANT: COHEN, IRUN R.

APPLICANT: BESERMAN, Pier

APPLICANT: MOSONEGO, ALOR

APPLICANT: MOALEM, Gila

TITLE OF INVENTION: ACTIVATED T-CELLS, NERVOUS SYSTEM-SPECIFIC ANTIGENS AND THEIR USE

FILE REFERENCE: EIS-SCHWARTZ=2A

CURRENT APPLICATION NUMBER: US/09/893,348

CURRENT FILING DATE: 2001-06-28

PRIOR APPLICATION NUMBER: US 09/314,161

PRIOR FILING DATE: 1999-05-19

PRIOR APPLICATION NUMBER: IIS 09/218-277

PRIOR APPLICATION NUMBER: US 09/210,211
PRIOR FILING DATE: 1998-12-22

PRIOR APPLICATION NUMBER: PCT/US98/14715

PRIOR FILING DATE: 1998-07-21

PRIOR FILING DATE: 1998-01-21
PRIOR APPLICATION NUMBER: T. 124500

PRIOR APPLICATION NUMBER: IL 124300
PRIOR FILING DATE: 1998-05-19

PRIOR FILING DATE: 1998-
NUMBER OF SEQ ID NOS: 39

NUMBER OF SEQ ID NOS: 29
SOFTWARE: Databionics 3.1
;

; SOFTWARE: Patented by Intel Corporation.

; SEQ ID NO 9

LENGTH: 17538

TYPE: DNA

ORGANISM: *Homo sapiens*

Query Match 37.6%; Score 150.4; DB 3; Length 17538;

Best Local Similarity 72.1%; Pred. No. 3.8e-35;

Matches 196; Conservative 0; Mismatches 76; Indels 0; Gaps 0.

OY	81	ATGCTGTAATCCGAGACTTCGGGAGGCCAAGGTGGCGGATCACCTGAGGTCAAGAGA	140
Db	13528	ATGCTGTAAATCCAGACTTTTGGAAAGCCAGGCGAGATCACCTGAGGTCAAGGGT	134658
OY	141	TCGAGACCATCTTGCCCAACAATGTTGTAACCCCGCTTTTACTTAAAAATACAAAAATAGC	200
Db	13468	TCAAGACCAAGCCTGAGCCAAACATGTTGTAACCCCGCTCTACTTAAAAATACAAAAATTAGC	13409
OY	201	TGGGCATGATGATGGACACACACTGTGTGTCCAGCTACTCAGGAGCCGAGATTGCAATGAGC	260
Db	13408	TGGGATATGATGGACATGCGCTGTATGTTCCAGCAACTTGGAGGCTGAGGCGAGGATATG	13349
OY	261	TGAGATCGCAAGTGAGCCGAAATACAGATTCACAGATGAGCAGATGAGCAKCCGCT	320
Db	13348	CTTGAAACCGAAGATGGAAGTTCCAGTGAGCGGAGATTGTGCATTGCAATTGCATCTCA	13289
OY	321	CAAAAACAACAACAAAAACAAAAACATA	352
Db	13288	AAAAAACTTCACTCAAAAAAAGAAAGAA	13257

Search completed: July 17, 2006, 22:44:38

Job time : 1466 secs

GenCore version 5.1.9
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On nucleic - nucleic search, using SW model

Run on: July 17, 2006, 21:21:05 ; Search time 407 Seconds

(without alignments)
1370.274 Million cell updates/sec

Title: SEQ1-47502C

Perfect score: 399.6
Sequence: 1 ccaggtactcagccatgctgc.....catgcagagacccaaaag 400

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 886355 seqs, 697127050 residues

Total number of hits satisfying chosen parameters: 1772710

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%

Listing first 150 summaries

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Published Applications NA New:*
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Pred. No. is the number of results predicted by chance to have a
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and is derived by analysis of the total score distribution.

SUMMARIES

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ALIGNMENTS

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; Publication No. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Hairkin, Paul
; APPLICANT: Mulligan, Patrick
; TITLE OF INVENTION: Transcription Microarray Technology and
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03

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; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: PatentIn version 3.3
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; LENGTH: 216387
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-23004

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; APPLICANT: Mulligan, Patrick
; TITLE OF INVENTION: Transcription Microarray Technology and
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
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; PRIOR FILING DATE: 2004-11-03
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PRIOR FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/700,293
PRIOR FILING DATE: 2005-07-18
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SOFTWARE: PatentIn version 3.3
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US-11-266-748A-204137

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Sequence 391815, Application US/11266748A
Publication No. US2006013463A1
GENERAL INFORMATION:
APPLICANT: Harkin, Paul
APPLICANT: Johnston, Patrick
TITLE OF INVENTION: Transcription Microarray Technology and
TITLE OF INVENTION: Methods of Using the Same
FILE REFERENCE: 55815-0102 (319189)
CURRENT APPLICATION NUMBER: US/11/266,748A
PRIOR FILING DATE: 2005-11-03
PRIOR APPLICATION NUMBER: EP 04105479.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105482.6
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105483.4
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105507.0
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105485.9
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105484.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: US 60/662,276
PRIOR FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/700,293
NUMBER OF SEQ ID NOS: 483996
SOFTWARE: PatentIn version 3.3
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TYPE: DNA
ORGANISM: Homo Sapiens
US-11-266-748A-391815

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RESULT 4

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Sequence 482533, Application US/11266748A
Publication No. US2006013463A1
GENERAL INFORMATION:
APPLICANT: Harkin, Paul
APPLICANT: Johnston, Patrick
TITLE OF INVENTION: Transcription Microarray Technology and
TITLE OF INVENTION: Methods of Using the Same
FILE REFERENCE: 55815-0102 (319189)
CURRENT APPLICATION NUMBER: US/11/266,748A
PRIOR FILING DATE: 2005-11-03
PRIOR APPLICATION NUMBER: EP 04105479.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105482.6
PRIOR FILING DATE: 2004-11-03
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PRIOR APPLICATION NUMBER: EP 04105485.9
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PRIOR APPLICATION NUMBER: EP 04105484.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: US 60/662,276
PRIOR FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/700,293
NUMBER OF SEQ ID NOS: 483996
SOFTWARE: PatentIn version 3.3
SEQ ID NO 482533
LENGTH: 1000
TYPE: DNA
ORGANISM: Homo Sapiens
US-11-266-748A-482533

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Best Local Similarity 74.0%; Pred. No. 1.6e-22;
Matches 205; Conservative 1; Mismatches 62; Indels 9; Gaps 1;

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DB 209 TCAAGACCAAGCTGGCCCAATGCTGAAACCCCGCTTTACTTAAATAATCAAAAAATAGC 150

Qy	201	TGGGCAATGGTGACACACCTGTAGTCCAGGTATCTAGAACCGGAGATGTCAAGTAGC	260
Db	149	CATGCATGGGTGGCATCATCTGTAAACACAGGTATTAAGAGAGGACAGAGGTGCGTAGC	90
Qy	261	TGAGATCGGAGAGTGAGCCGGAATACAGAGTACAGAGATGAGCAGATGAGCCCGTCT	320
Db	89	TGAGGTCAATGCCATTGCCTTCA-----GCTGGGCTGACACGCGACATCTTCATCT	39
Qy	321	CAAAAACACACAAAAA-CAAAAAACCATTAAGCA	357
Db	38	CAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	2

```

RESULT 5
US-11-266-748A-118317
; Sequence 118317, Application US/11266748A
; Publication No. US2006013463A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcriptome Microarray Technology and
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT APPLICATION NUMBER: US/11/266,748A
; CURRENT FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 118317
; LENGTH: 1000
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-118317

Query Match 37.0%; Score 147.8; DB 8; Length 1000;
Best Local Similarity 68.4%; Pred. No. 3,4e-72;
Matches 221; Conservative 1; Mismatches 93; Indels 8; Gaps 1

33 ACCCAATTTATATAGACATTTGTGCGGCGAGCATGACACTGGCTGTGAATGCTGTAAATC 92
|||||
677 ACACATTTTAACTTAAAGAAATACTGTGACGGCCATGCTGTGGGTCTACAGCCTGTAAATC 736
|||||

93 CCAGCACTTGGGAGGCCAAGGTGGGCGGATCACTGAGGTCAAGATGAGACCATCC 152
737 CCAGCACTTTGGGAGGCGCAGAGTGGGCAATACCCGAGGTGAGGATTCGAAACCAAGCC 796
|||||

153 TGGCCAAAGTGTGAAACCCCGCTTTACTTAAAAAATACAAAATATGCTGGGCGATGGTG 212
797 TTGCCAAAGTGTGAAACCCCTGCTTTACTTAAAAAATACAAAATATGCTGGGCGATGGTG 856
|||||

213 CACACACCTGTATGCTCCAGCTACTACAGAG-----CCGAGATTGCAAGTGAAGTGAG 264
|||||
857 CAGGCACTGTAAATCCCAAGTACTAGGAGGCTTTTGAACCCGAGGAGGAGAGGTTGGCAG 916
|||||

265 ATGCGAGAGTGAAGCCGAATACACAGATCACAGAGTGACGAGGTGAGACCKCGCTTCAAA 324
|||||

```

Db 917 CGAGCTGAATGCGCCGCACTGCACCTCGAGCCTGGGTATAGAGTGAGATTCAGTCTCAA 976

Qy 325 AACACACACAAAAACAAAAA 347

Db 977 AAAAAAAAAAAAAAAAAAAAAA 999

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RESULT 6
US-11-266-748A-160481/c
; Sequence 160481. Application US//11266748A
; Publication NO. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Hartin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OR INVENTION: Transcription Microarray Technology and
; TITLE OR INVENTION: Methods of Using the Same
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT APPLICATION NUMBER: US//11266, 748A
; CURRENT FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 48396
; SOFTWARE: Seq ID NOS: 48396
; SEQ ID NO 160481
; LENGTH: 1000
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-160481

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[illegible]

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RESULT 7
US-11-266-748A-403127
; Sequence 403127, Application US/11266748A
; Publication No. US2006013463A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcription Microarray Technology and
; TITLE OF INVENTION: Methods of Using the Same
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: US/11/266,748A
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 403127
; LENGTH: 1000
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-403127

Query Match      37.0%; Score 147.8; DB 8; Length 1000;
Best Local Similarity 68.4%; Pred. No. 3.4e-22;
Matches 221; Conservative 1; Mismatches 93; Indels 8; Gaps 1;

QY 33 ACCCAATATTAAAGACATTTGTCAGGCCAGCATGACACTGCTGAATGCTGTATTC 92
DB 677 ACACATTTTACATTAAAGAAATACGTGTCAGGCCATGCTGTGCTGACGCTGTATTC 736
QY 93 CCAGCACTTCGGAGGCCAGAGTGGCGGATCACTGAGTCAAGATGAGACCATCC 152
DB 737 CCAGCACTTTGGAGGCCAGAGTGGCGGATCACTGAGTCAAGATGAGACCATCC 796
QY 153 TGGCAACATAGTGAACCCCGTCTTTACTTAAATAATCAAAAAATAGCTGGGCAATGG 212
DB 797 TTGCCAACATAGTGAACCCCGTCTTTACTTAAATAATCAAAAAATAGCTGGGCAATGG 856
QY 213 CACACACCTGTAGTCCCACTACTCAAGAG-----CCGAGATTGCACTGAGCTGAG 264
DB 857 CAGGCACTGTATTCACAGTACTAGGAGGCTTTGAACCCAGAGGCAAGGTTGCG 916
QY 265 ATGCGAAGTGAAGCCGAATCAAGATCAAGATGAGAGTGAAGTGAAGCKCGTCTCAA 324
DB 917 CGAGCTGAGATCGCGCCACTGCACTCCAGCTGGGTATAGTGAATTCAGTCTCAA 976
QY 325 AACCAACAACAAAAACAAAAA 347
DB 977 AAAAAAAAAAAAAAAAAAAAAA 999

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; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcription Microarray Technology and
; TITLE OF INVENTION: Methods of Using the Same
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT FILING DATE: US/11/266,748A
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 474173
; LENGTH: 1000
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-474173

Query Match      37.0%; Score 147.8; DB 8; Length 1000;
Best Local Similarity 68.4%; Pred. No. 3.4e-22;
Matches 221; Conservative 1; Mismatches 93; Indels 8; Gaps 1;

QY 33 ACCCAATATTAAAGACATTTGTCAGGCCAGCATGACACTGCTGAATGCTGTATTC 92
DB 324 ACACATTTTACATTAAAGAAATACGTGTCAGGCCATGCTGTGCTGACGCTGTATTC 265
QY 93 CCAGCACTTCGGAGGCCAGAGTGGCGGATCACTGAGTCAAGATGAGACCATCC 152
DB 264 CCAGCACTTTGGAGGCCAGAGTGGCGGATCACTGAGTCAAGATGAGACCATCC 205
QY 153 TGGCAACATAGTGAACCCCGTCTTTACTTAAATAATCAAAAAATAGCTGGGCAATGG 212
DB 204 TTGCCAACATAGTGAACCCCGTCTTTACTTAAATAATCAAAAAATAGCTGGGCAATGG 145
QY 213 CACACACCTGTAGTCCCACTACTCAAGAG-----CCGAGATTGCACTGAGCTGAG 264
DB 144 CAGGCACTGTATTCACAGTACTAGGAGGCTTTGAACCCAGAGGCAAGGTTGCG 85
QY 265 ATGCGAAGTGAAGCCGAATCAAGATCAAGATGAGAGTGAAGTGAAGCKCGTCTCAA 324
DB 84 CGAGCTGAGATCGCGCCACTGCACTCCAGCTGGGTATAGTGAATTCAGTCTCAA 25
QY 325 AACCAACAACAAAAACAAAAA 347
DB 24 AAAAAAAAAAAAAAAAAAAAAA 2

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RESULT 8
US-11-266-748A-474173/C
; Sequence 474173, Application US/11266748A
; Publication No. US2006013463A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick

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```

RESULT 9
US-11-319-952-56
; Sequence 56, Application US/11319952
; Publication No. US2006013414A1
; GENERAL INFORMATION:
; APPLICANT: Yousef, George M.
; APPLICANT: Diamandis, Efstherios
; TITLE OF INVENTION: Novel Human Kallikrein-like Genes
; FILE REFERENCE: WTS3USA
; CURRENT FILING DATE: US/11/319,952
; PRIOR APPLICATION NUMBER: 2005-12-28
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: PCT/CA00/00258

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; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-266-748A-219455
;
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: US 60/124,260
; PRIOR FILING DATE: 1999-03-11
; PRIOR APPLICATION NUMBER: US 60/127,386
; PRIOR FILING DATE: 1999-04-01
; PRIOR APPLICATION NUMBER: US 60/144,919
; PRIOR FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 56
; LENGTH: 11820
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-319-952-56
;
Query Match      36.8%; Score 147.6; DB 8; Length 11820;
Best Local Similarity 75.4%; Pred. No. 4.2e-22;
Matches 199; Conservative 1; Mismatches 55; Indels 9; Gaps 1;

QY      84 CCTGTAATCCAGCACTTGGGAGGCGCAAGTGGCGGATCACTGAGGTCAAGAGATCG 143
DB      2706 CCTGTAATCCCGCGCACTTGGGAGGCGCAAGGCAAGGCAAGTGTGCTTGAGCGCAGAGTCA 2765
QY      144 AGACCATCTGCGCCCAACATGTGGAACCCCGCTTTACTTAAATAACAAAAATAGCTGG 203
DB      2766 AGACCATCTGCGCCCAACATGTGGAACCCCGCTTTACTTAAATAACAAAAATAGCTGG 2825
QY      204 GCATGTGGGACACACACTGTAGTCCCACTACTCAGAGCGGAGATTGACGTAGCTGA 263
DB      2826 ACATGTGGGACACACACTGTAGTCCCACTACTCAGAGCGGAGATTGACGTAGCTGA 2885
QY      264 GATGCGAGAGTGAAGCCGAAATTCACGATTCACAGAGTGAAGAGTGAACCCGCTCTAA 323
DB      2886 GATGCGAGAGTGAAGCCGAAATTCACGATTCACAGAGTGAAGAGTGAACCCGCTCTAA 2936
QY      324 AAACACACACACACACACACACACACACACACACACACACACACACACACACACAC 347
DB      2937 AACGAAACACACACACACACACACACACACACACACACACACACACACACACACACAC 2960

RESULT 10
US-11-266-748A-219455
; Sequence 219455, Application US/11266748A
; Publication No. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; TITLE OF INVENTION: Transcriptome Microarray Technology and
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT APPLICATION NUMBER: US/11/266,748A
; PRIOR FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 219455
; LENGTH: 897
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; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-266-748A-219455
;
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: US 60/124,260
; PRIOR FILING DATE: 1999-03-11
; PRIOR APPLICATION NUMBER: US 60/127,386
; PRIOR FILING DATE: 1999-04-01
; PRIOR APPLICATION NUMBER: US 60/144,919
; PRIOR FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 56
; LENGTH: 11820
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-266-748A-219455
;
Query Match      36.8%; Score 147.2; DB 8; Length 897;
Best Local Similarity 75.4%; Pred. No. 4.4e-22;
Matches 196; Conservative 1; Mismatches 59; Indels 4; Gaps 1;

QY      81 ATGCTGTATCCAGCACTTGGGAGGCGCAAGTGGCGGATCACTGAGGTCAAGAGA 140
DB      593 AGCCTGTATCTTGAAGCACTTGGGAGGCGCAAGTGGCGGATCACTGAGGTCAAGAGT 652
QY      141 TCGAGACCATCTGCGCCCAACATGTGGAACCCCGCTTTACTTAAATAACAAAAATAGC 200
DB      653 TCGAGACCATCTGCGCCCAACATGTGGAACCCCGCTTTACTTAAATAACAAAAATAGC 712
QY      201 TGGGCACTGTGGGACACACCTGTAGTCCAGCTACTCAGAGAGCCGAGATTGACGTAGC 260
DB      713 TGGGCACTGTGGGACACACCTGTAGTCCAGCTACTCAGAGAGCCGAGATTGACGTAGC 772
QY      261 TGAATGCGACAGTGAAGCCGAAATTCACAGATTCACAGAGTGAAGAGTGAAGAGCTGCT 320
DB      773 CTGGAACCCAGAGTGAAGGCAAGTGAACCCGAGAGTGAAGAGTGAAGAGTGAAGAGT 828
QY      321 CAAAAACACACACACACACACACACACACACACACACACACACACACACACACACACAC 340
DB      829 CAAAAACACACACACACACACACACACACACACACACACACACACACACACACACACAC 848

RESULT 11
US-11-266-748A-219441/c
; Sequence 219441, Application US/11266748A
; Publication No. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; TITLE OF INVENTION: Transcriptome Microarray Technology and
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT APPLICATION NUMBER: US/11/266,748A
; PRIOR FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 219441
; LENGTH: 897
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-266-748A-219441
;
Query Match      36.8%; Score 147.2; DB 8; Length 897;
Best Local Similarity 75.4%; Pred. No. 4.4e-22;
Matches 196; Conservative 1; Mismatches 59; Indels 4; Gaps 1;

QY      81 ATGCTGTATCCAGCACTTGGGAGGCGCAAGTGGCGGATCACTGAGGTCAAGAGA 140
DB      305 AGCCTGTATCTTGAAGCACTTGGGAGGCGCAAGTGGCGGATCACTGAGGTCAAGAGT 246
```

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OY 141 TCGAGACCATCTGGGCAACATGTGAAACCCCGTCTTACTTAAATAACAAAAATAGC 200
DB 245 TCGAACACCGCTGGCCCAACATGTGAAACCTCACTTCTTAAATAACAAAAATTAGC 186
OY 201 TGGGATGTGTGGCACAACCTGTAGTCCAGCTACTCAGAGACCGGAGATTGCAGTAGC 260
DB 185 TGGGATGTGTGTGATGCTGTAAATCCAGCTACTAGGAGGCTGAGGCAAGAAATCA 126
OY 261 TGAATTCGACAGTGAACCGAAATACAGATACAGATGAGCAGAGTGAACCKCGTCT 320
DB 125 CTTTGAACCCAGAGGTGAAGGCGACAGTGACC-----AGGCGCAGAGTGAAGCTGTCT 70
OY 321 CAAAAACAACAACAAAAAC 340
DB 69 CAAAAAGAAAAAGAAAAAC 50

RESULT 12
US-11-293-697-1113/C
; Sequence 1113, Application US/11293697
; Publication No. US20060105376A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: H1-A0106
; CURRENT APPLICATION NUMBER: US/11/293,697
; PRIOR FILING DATE: 2005-12-05
; PRIOR APPLICATION NUMBER: US/10/108,260
; PRIOR FILING DATE: 2002-03-28
; NUMBER OF SEQ ID NOS: 5458
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1113
; LENGTH: 2909
; ORGANISM: Homo sapiens
US-11-293-697-1113

Query Match 36.8%; Score 147; DB 8; Length 2909;
Best Local Similarity 71.9%; Pred. No. 5.2e-22;
Matches 192; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

OY 81 ATGCTGTAAATCCGACACTTGGGAGCCCAAGTGGGCGGATCACTGAGTCAAGACA 140
DB 678 ACGCTATTAATCCGACACTTGGGAGGCTGAGCGCGGATCACTGAGTCAAGAGT 619
OY 141 TCGAGACCATCTGGGCAACATGTGAAACCCCGTCTTAAATAACAAAAATTAGC 200
DB 618 TCAAGACCAAGCTGGCCCAACATGTGAAACCCCATCTTCTTAAATAACAAAAATTAGC 559
OY 201 TGGGATGTGTGGCACAACCTGTAGTCCAGCTACTCAGAGACCGGAGATTGCAGTAGC 260
DB 558 TGGGATGTGTGTGATGCTGTAAATCCAGCTACTTGGGAGGCTGAGGTTGCAGTAGC 499
OY 261 TGAATTCGACAGTGAACCGAAATACAGATACAGATGAGCAGAGTGAACCKCGTCT 320
DB 498 CAAAGTTCACACAATGCACCTCCAGCTGGGTGACAGAGCAAGATCCGCTCTCCAAAAA 439
OY 321 CAAAAACAACAACAAAAAC 347
DB 438 TAAATTAATTAATTAATTAATTAATCA 412

RESULT 13
US-11-266-748A-23290/C
; Sequence 23290, Application US/11266748A
; Publication No. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcription Microarray Technology and
; TITLE OF INVENTION: Methods of Using the Same

```

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; FILE REFERENCE: 55815-0102 (319189)
; CURRENT APPLICATION NUMBER: US/11/266,748A
; CURRENT FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 48396
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 23290
; LENGTH: 112595
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-23290

Query Match 36.6%; Score 146.2; DB 8; Length 112595;
Best Local Similarity 78.5%; Pred. No. 9.1e-22;
Matches 175; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

OY 81 ATGCTGTAAATCCGACACTTGGGAGCCCAAGTGGGCGGATCACTGAGTCAAGACA 140
DB 23489 ACGCTGTAAATCCGACACTTGGGAGGCGGAGGCGCAATCACTTGAAGCCGAGAGT 23430
OY 141 TCGAGACCATCTGGGCAACATGTGAAACCCCGTCTTAAATAACAAAAATTAGC 200
DB 23429 TCGAACACCGCTGGCCCAACATGTGAAACCCCGTCTTCTTAAATAACAAAAATTAGC 23370
OY 201 TGGGATGTGTGGCACAACCTGTAGTCCAGCTACTCAGAGACCGGAGATTGCAGTAGC 260
DB 23369 CCGGATGTGTGTGACGCGCTGTAGTCCAGCTACTCAGGAGGCGGAGGCAAGAAATCA 23310
OY 261 TGAATTCGACAGTGAACCGAAATACAGATACAGATGAGC 303
DB 23309 TTTGAACCGGGGTGCGAAGGTTCGACAGTGAACCGGAGATTGCGC 23267

RESULT 14
US-11-266-748A-30503/C
; Sequence 30503, Application US/11266748A
; Publication No. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcription Microarray Technology and
; TITLE OF INVENTION: Methods of Using the Same
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT APPLICATION NUMBER: US/11/266,748A
; CURRENT FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03

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PRIOR APPLICATION NUMBER: US 60/662,276
PRIOR FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/700,293
PRIOR FILING DATE: 2005-07-18
NUMBER OF SEQ ID NOS: 483996
SOFTWARE: PatentIn version 3.3
SEQ ID NO 30503
LENGTH: 6372
TYPE: DNA
ORGANISM: Homo Sapiens
US-11-266-748A-30503

Query Match
Best Local Similarity 36.4%; Score 145.6; DB 8; Length 6372;
Matches 202; Conservative 1; Mismatches 70; Indels 5; Gaps 1;

QY 81 ATGCTGTAAATCCAGACATTGCGAGGCGCAAGTGGGCGGATCACTGAGGTCAAGAGA 140
DB 2899 ACGCTGTAAATCCAGACATTGCGAGGCGCAAGGCGGATTAAGTCAAGGTGAGAGT 2840
QY 141 TCGAGACCATCTTGGCCCAACATGTTGAAACCCCGCTTTACTTAAATAACAAAATATGC 200
DB 2839 TCAAGACCAAGCTTGGCCCAACATGTTGAAACCCCGCTTTACTTAAATAATTAATTAATGT 2780
QY 201 TGGGCGATGTGGGCAACACCTGTAGTCCAGCTACTGAGAGCCGGA-----GATTGAG 255
DB 2779 TGGGCGATGTGGGCAATGCTGTAGTCCAGCTACTGAGAGCCGCTTGAAGGCGATTTGCTT 2720
QY 256 TGAAGTGAATCGAGATGAGCCGAAATCAAGATCAAGAGTGAAGAGTGAAGAGC 315
DB 2719 TGACCTGGAGGAGGAGGAGTGTGGCCACTTCACTCCAGCTAAGGCAAGAGTAAGACTC 2660
QY 316 CGTCTCAAAAACACAAACAAAACAAAACAAAACCTAA 333
DB 2659 CAGCTCAAAAACAAAACAAAACAAAACAAAACGAAACAA 2622

RESULT 15
US-11-266-748A-24156/c
Sequence 24156, Application US/11266748A
Publication No. US2006013463A1
GENERAL INFORMATION:
APPLICANT: Harkin, Paul
APPLICANT: Johnston, Patrick
TITLE OF INVENTION: Transcriptome Microarray Technology and
FILE REFERENCE: 55815-0102 (319189)
CURRENT APPLICATION NUMBER: US/11/266,748A
CURRENT FILING DATE: 2005-11-03
PRIOR APPLICATION NUMBER: EP 04105479.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105482.6
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105483.4
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105507.0
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105485.9
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105484.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: US 60/662,276
PRIOR FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/700,293
PRIOR FILING DATE: 2005-07-18
NUMBER OF SEQ ID NOS: 483996
SOFTWARE: PatentIn version 3.3
SEQ ID NO 24156
LENGTH: 3324
TYPE: DNA
ORGANISM: Homo Sapiens
US-11-266-748A-24156
```

```

Query Match
Best Local Similarity 36.3%; Score 145; DB 8; Length 3324;
Matches 172; Conservative 0; Mismatches 45; Indels 0; Gaps 0;

QY 81 ATGCTGTAAATCCAGACATTGCGAGGCGCAAGTGGGCGGATCACTGAGGTCAAGAGA 140
DB 389 ATGCTGTAAATCCAGACATTGCGAGGCGCAAGGTTGATCACTGAGGTCAAGAGT 330
QY 141 TCGAGACCATCTTGGCCCAACATGTTGAAACCCCGCTTTACTTAAATAACAAAATATGC 200
DB 329 TCAAGACCAAGCTTGGGAAACATGTTGAAACCCCGCTTTACTTAAATAATTAATTAATGC 270
QY 201 TGGGCGATGTGGGCAACACCTGTAGTCCAGCTACTGAGAGCCGGAAGATTGAGTGAAGC 260
DB 269 TGGGCGATGTGGGCGGAGCTGTAGTCCAGCTACTGAGAGGCTGAGTGAAGATCA 210
QY 261 TGAAGTCAGAGTGAAGCCGAAATCAAGATCAAGA 297
DB 209 CTGAAACCAAGAGTGAAGGCTGAGTGAAGCCGAGA 173

RESULT 16
US-11-266-748A-390100
Sequence 390100, Application US/11266748A
Publication No. US2006013463A1
GENERAL INFORMATION:
APPLICANT: Harkin, Paul
APPLICANT: Johnston, Patrick
TITLE OF INVENTION: Transcriptome Microarray Technology and
FILE REFERENCE: 55815-0102 (319189)
CURRENT APPLICATION NUMBER: US/11/266,748A
CURRENT FILING DATE: 2005-11-03
PRIOR APPLICATION NUMBER: EP 04105479.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105482.6
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105483.4
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105507.0
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105485.9
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105484.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: US 60/662,276
PRIOR FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/700,293
PRIOR FILING DATE: 2005-07-18
NUMBER OF SEQ ID NOS: 483996
SOFTWARE: PatentIn version 3.3
SEQ ID NO 390100
LENGTH: 1000
TYPE: DNA
ORGANISM: Homo Sapiens
US-11-266-748A-390100

Query Match
Best Local Similarity 36.2%; Score 144.8; DB 8; Length 1000;
Matches 218; Conservative 1; Mismatches 93; Indels 8; Gaps 1;

QY 33 ACCCAATATTAATTAAGACATTTGACGCGCAGGATGACACTGGCTGAATGCTGTATC 92
DB 434 ACACAATTTTACATTAAGAAATTAAGTGTGACGCGATGCTGTGCTGAGCTGTATTC 493
QY 93 CCAAGACTTGGGAGGCGCAAGTGGGCGGATCACTGAGTCAAGAGATGAGACCATCC 152
DB 494 CCAAGACTTGGGAGGCGCAAGTGGGCGGATCACTGAGTCAAGAGATGAGACCATCC 553
QY 153 TGGCCAACTGATGAACCCCGCTTTACTTAAATAACAAAATAGCTGGGCAATGTGTG 212
```

Query Match	Score	DB	Length	Indels	Gaps
Beet Local Similarity	68.1%		1,4e-21		
Matches	218	Conservative	1	Mismatches	93
				Indels	8
				Gaps	1
33	ACCCAAATTTAATAGACATTTGTGAGGCGAGCATGACACTGTGCTGAATGGCTGTAATC	92			
567	ACACAATTTTACATTTAAGAAATACATCTGTGACAGCCATGCTGTGGCTGAGGCTGTAATC	508			
93	CCAGCACTTTCGGGAGGCCAAGGTGGGCGGATCACTGAGGTGAGAGATCGAGACATCC	152			
507	CCAGCACTTTCGGGAGGCCAAGGTGGGCGGATCACTGAGGTGAGAGATCGAGACATCC	448			
153	TGGCAATGATGTTGAATCCCGCTCTTTACTAATAAATACAAAATATAGCTGGGATGTTG	212			
447	TTCGCAATGATGTTGAATCCCGCTCTTTACTAATAAATACAAAATATAGCTGGGATGTTG	388			
213	CACACACCTGTGTGCTCCAGCTACTCAGAG-----CCGAGATTGCAAGTGAAGTGA	264			
387	CAGGCACTGTATATCCCAAGCTCTAAGGAGGCTTTTGAACCAAGAGGCAAGGTTGCA	328			
265	ATCGCAGATGAGCCGAAATCAAGATCAAGAGTGAAGAGAGTGAAGATCCCGCTTCAAA	324			

```

Db      327 CGAGTGTGATCGCGCACTGCACCTCCAGCCTGGTGATGAGATTGAGATTCTTCATAA   268
Qy      325 AACACAACAACAAAAACAAA   344
        |||||
Db      267 AAAAAAAAAAAAAAAAAAAAAA   248

RESULT 18
US-11-266-748A-60135
; Sequence 60135, Application US/11266748A
; Publication No. US20060134663A1
GENERAL INFORMATION:
APPLICANT: Harkin, Paul
APPLICANT: Johnston, Patrick
APPLICANT: Mulligan, Karl
TITLE OF INVENTION: Transcription Microarray Technology and
TITLE OF INVENTION: Methods of Using the Same
FILE REFERENCE: 55815-0102 (319189)
CURRENT FILING DATE: 2005-11-03
PRIOR APPLICATION NUMBER: EP 04105479.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105482.6
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105483.4
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105507.0
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105485.9
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105484.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: US 60/662,276
PRIOR FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/700,293
PRIOR FILING DATE: 2005-07-18
NUMBER OF SEQ ID NOS: 48396
SOFTWARE: PatentIn version 3.3
SEQ ID NO 60135
LENGTH: 227968
TYPE: DNA
ORGANISM: Homo Sapiens
US-11-266-748A-60135

Query Match          36.1%; Score 144.4; DB 8; Length 227968;
Best Local Similarity 76.1%; Pred. No. 2.2e-21;
Matches 178; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

       70 ACACTGCTGAAGAAGCCTGTATCCAGACACTTTCGGAGGCCAAAGTAGGGCGGATCACTTG 129
Db      40152 ACAGTGGCTCAAGCGCCATATATCCAGACACTTTGGAGGCCAAGTAGGGCGGATCACTTG 40211
Qy      130 AGTCAAGAGATGAGACCATCTCTGGCCAAATGATGTGAACCCTGGTCTTTACTAAAAATA 189
        |||||
Db      40212 AGGTCAACAGATTCAAGCACAGCTGGCCAAACGTGTGAACCCCGTCTTACTAAAAACA 40271
Qy      190 CAAAAAATTAATCTGGCGCATGTGTGCACACACCTGTATCCAGTACTTCAGAGCCCGGAGA 249
        |||||
Db      40272 CAAAAAATTAATCTGGCGCATGTGTGTGATACCTGTGTATCCAGTACTTGTGAGAGCTGAGG 40331
Qy      250 TTGCAGTGAGACTGAGATTCGAGAGTGAAGCCGAATATCAAGATCAAGAGTGAAGC 303
        |||||
Db      40332 TAGAGGAATCAATTGAACCTGGGCAACGAGACTTGTGAGTAGAGCCGAGATGAGAC 40385

RESULT 19
US-11-266-748A-206136/c
; Sequence 206136, Application US/11266748A
; Publication No. US20060134663A1
GENERAL INFORMATION:
APPLICANT: Harkin, Paul
APPLICANT: Johnston, Patrick

```

APPLICANT: Mulligan, Karl
TITLE OF INVENTION: Transcription Microarray Technology and
FILE REFERENCE: 55815-0102 (319189)
CURRENT APPLICATION NUMBER: US/11/266,748A
PRIOR FILING DATE: 2005-11-03
PRIOR APPLICATION NUMBER: EP 04105479.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105482.6
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105483.4
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105507.0
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105485.9
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105484.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: US 60/662,276
PRIOR FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/700,293
PRIOR FILING DATE: 2005-07-18
NUMBER OF SEQ ID NOS: 483996
SOFTWARE: PatentIn version 3.3
SEQ ID NO 206136
LENGTH: 1000
TYPE: DNA
ORGANISM: Homo Sapiens
US-11-266-748A-206136

Query Match 36.1%; Score 144.2; DB 8; Length 1000;
Best Local Similarity 70.0%; Pred. No. 1.9e-21;
Matches 194; Conservative 0; Mismatches 83; Indels 0; Gaps 0;

QY 81 ATGCTGTAAATCCAGACATTGCGAGGCCCAAGTGGCGGATCACTGAGGTCAAGACA 140
DB 850 ACGCTTAATCCAGACATTGAGAAACCGAGGAGGAGATCACTGAGGTCAAGAGT 791
QY 141 TCGAGACATCTCGGCAACATGTGAAACCCGCTTACTAAATAATCAAAAATATGC 200
DB 790 TCCAGACAGCCTCGCCCAACATGTGAAACCCGCTTACTAAATAATCAAAAATATGC 731
QY 201 TGGGATGTGGGACACACCTGTAGTCCAGCTACTCAGAGCCGAGATTGAGTGAGC 260
DB 730 TGGGATGTGGGACACATGCTGTATCTCACTATTGGGAGGCTGAGAGAGAAATG 671
QY 261 TGAATCCAGAGTGAAGCCGAAATCAAGATCAAGAGTGAGCAGAGTGAAGCKCGTCT 320
DB 670 CTGGAACCCAGAGGTGAAGGTGCGAGTAACCAAGATTGGCGCTGCACTCCAGCATGG 611
QY 321 CAAAACAAACAACAAAAAACAACCAATAGACA 357
DB 610 GCAAGACAGAAACTCTGTCAAAAAAAMAAAAA 574

RESULT 20
US-11-266-748A-60135/C
Sequence 60135, Application US/11266748A
Publication No. US2006013463A1
GENERAL INFORMATION:
APPLICANT: Harkin, Paul
APPLICANT: Johnston, Patrick
APPLICANT: Mulligan, Karl
TITLE OF INVENTION: Transcription Microarray Technology and
FILE REFERENCE: 55815-0102 (319189)
CURRENT APPLICATION NUMBER: US/11/266,748A
PRIOR FILING DATE: 2005-11-03
PRIOR APPLICATION NUMBER: EP 04105479.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105482.6
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105483.4

PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105507.0
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105485.9
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105484.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: US 60/662,276
PRIOR FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/700,293
PRIOR FILING DATE: 2005-07-18
NUMBER OF SEQ ID NOS: 483996
SOFTWARE: PatentIn version 3.3
SEQ ID NO 60135
LENGTH: 227968
TYPE: DNA
ORGANISM: Homo Sapiens
US-11-266-748A-60135

Query Match 36.1%; Score 144.2; DB 8; Length 227968;
Best Local Similarity 73.6%; Pred. No. 2.5e-21;
Matches 217; Conservative 1; Mismatches 59; Indels 18; Gaps 2;

QY 81 ATGCTGTAAATCCAGACATTGCGAGGCCCAAGTGGCGGATCACTGAGGTCAAGACA 140
DB 204862 ACGCTTAATCCAGACATTGAGAAACCGAGGAGGATCACTGAGGTCAAGAGT 204803
QY 141 TCGAGACATCTCGGCAACATGTGAAACCCGCTTACTAAATAATCAAAAATATGC 200
DB 204802 TCGAGACAGCCTCGCCCAACATGTGAAACCCGCTTACTAAATAATCAAAAATATGC 204743
QY 201 TGGGATGTGGGACACACCTGTAGTCCAGCTACTCAGAG-----GCCGAGATTGC 253
DB 204742 CGGCGGTGTGGGACACATGCTGTATCCAGCTACTCAGAGGAGTGAAGGAGAAATGC 204683
QY 254 AGTGAAGTGAATGCAAGAGTGAAGCCGAAATCAAGATCA-----CAAGTGAAG 302
DB 204682 CTGGAACCGGGAAGCGAGAGTTGCAAGTGAAGCAAGTCAAGTCACTCTAGGTGA 204623
QY 303 CAGAGTGAAGCKCGCTCAAAAACAACAAAAAACAACCAATAGACA 357
DB 204622 CAGAGTGAAGCTCTGTCAAAAAAAMAAAAA 204568

RESULT 21
US-11-266-748A-198112/C
Sequence 198112, Application US/11266748A
Publication No. US2006013463A1
GENERAL INFORMATION:
APPLICANT: Harkin, Paul
APPLICANT: Johnston, Patrick
APPLICANT: Mulligan, Karl
TITLE OF INVENTION: Transcription Microarray Technology and
FILE REFERENCE: 55815-0102 (319189)
CURRENT APPLICATION NUMBER: US/11/266,748A
PRIOR FILING DATE: 2005-11-03
PRIOR APPLICATION NUMBER: EP 04105479.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105482.6
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105483.4
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105507.0
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105485.9
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105484.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: US 60/662,276
PRIOR FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/700,293
PRIOR FILING DATE: 2005-07-18

NUMBER OF SEQ ID NOS: 483996
SOFTWARE: Patentin version 3.3
SEQ ID NO 198112
LENGTH: 1000
TYPE: DNA
ORGANISM: Homo Sapiens
US-11-266-748A-198112

Query Match 35.8%; Score 143; DB 8; Length 1000;
Best Local Similarity 77.6%; Pred. No. 3.3e-21;
Matches 173; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY 81 ATGCTGTATATCCAGCACTTCGGAGGCGCAAGGTGGGAGATCACTGAGGTCAAGAGA 140
DB 725 ATGCTGTATATCCAGCACTTTAGAGAGCGCGAGGTGGGGGATCACTGAGGTCAAGAG 666
QY 141 TCGAGACCATCTCTGGCCAAATGTGTAACCCCGTCTTAAATAAATAAATAATAGC 200
DB 665 TCGAGACCATCTCTGGCCAAATGTGTAACCCCGTCTTAAATAAATAAATAATAGC 606
QY 201 TGGGATGTGGGACACACCTGTAGTCCAGCTACTCAGAGCCGAGATTGCACTGAGC 260
DB 605 TGGGATGTGGGACACACCTGTAGTCTGAGCTACTCAGAGCCGAGATTGCACTGAGC 546
QY 261 TGAGATCGCAGAGTAGGCGCAATATCAAGATCAAGAGTAGC 303
DB 545 CTGTAACCCAGAGACAGAGGTTCAGATGAGCCAGATGTGC 503

RESULT 22

US-11-266-748A-59101/c
Sequence 59101, Application US/11266748A
Publication No. US20060134663A1

GENERAL INFORMATION:

APPLICANT: Harkin, Paul
APPLICANT: Johnston, Patrick
APPLICANT: Mulligan, Karl
TITLE OF INVENTION: Transcriptome Microarray Technology and
FILE REFERENCE: 55815-0102 (319189)
CURRENT FILING DATE: 2005-11-03
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105479.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105482.6
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105483.4
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105507.0
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105485.9
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105484.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: US 60/662,276
PRIOR FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/700,293
PRIOR FILING DATE: 2005-07-18
NUMBER OF SEQ ID NOS: 483996
SOFTWARE: Patentin version 3.3
SEQ ID NO 59101
LENGTH: 96217
TYPE: DNA
ORGANISM: Homo Sapiens
US-11-266-748A-59101

Query Match 35.8%; Score 143; DB 8; Length 96217;
Best Local Similarity 88.6%; Pred. No. 4.2e-21;
Matches 155; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 81 ATGCTGTATATCCAGCACTTCGGAGGCGCAAGGTGGGAGATCACTGAGGTCAAGAGA 140
DB 25922 ACGCTGTATATCCAGCACTTTGGAGGCGCGAGGTGGGATCACTGAGGTCAAGAGT 25863

QY 141 TCGAGACCATCTCTGGCCAAATGTGTAACCCCGTCTTAAATAAATAAATAATAGC 200
DB 25862 TCGAGACCATCTCTGGCCAAATGTGTAACCCCGTCTTAAATAAATAAATAATAGC 25803
QY 201 TGGGATGTGGGACACACCTGTAGTCCAGCTACTCAGAGCCGAGATTGCACTGAGC 255
DB 25802 TGGGATGTGGGACACACCTGTAGTCCAGCTACTCAGAGCCGAGATTGCACTGAGC 25748

RESULT 23

US-11-266-748A-27021
Sequence 27021, Application US/11266748A
Publication No. US20060134663A1

GENERAL INFORMATION:

APPLICANT: Harkin, Paul
APPLICANT: Johnston, Patrick
APPLICANT: Mulligan, Karl
TITLE OF INVENTION: Transcriptome Microarray Technology and
FILE REFERENCE: 55815-0102 (319189)
CURRENT FILING DATE: 2005-11-03
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105479.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105482.6
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105483.4
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105507.0
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105485.9
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105484.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: US 60/662,276
PRIOR FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/700,293
PRIOR FILING DATE: 2005-07-18
NUMBER OF SEQ ID NOS: 483996
SOFTWARE: Patentin version 3.3
SEQ ID NO 27021
LENGTH: 1945
TYPE: DNA
ORGANISM: Homo Sapiens
US-11-266-748A-27021

Query Match 35.7%; Score 142.6; DB 8; Length 1945;
Best Local Similarity 69.4%; Pred. No. 4.2e-21;
Matches 209; Conservative 1; Mismatches 85; Indels 6; Gaps 1;

QY 63 AGGATGACACTGCTGATATCTGTATCCAGCACTTCGGAGGCGCAAGGTGGGCGGA 122
DB 1636 AGGCGGGCGGTGGCTCATCTGTATCCAGCACTTTGGGCGTGAAGTGAACGGA 1695
QY 123 TCACCTGAGTCAAGAGATGAGACATCTGGCCAAATGTAACCCCGTCTTACT 182
DB 1696 TCACCTGAGTCAAGAGATGAGACATCTGGCCAAATGTAACCCCGTCTTACT 1755
QY 183 AAAAAATCAAAAAATAGCTGGGCAATGTGCGACACACTGTATGCCAGCTACTCAAGAG 242
DB 1756 AAAAAATCAAAAAATAGCTGGGCAATGTGCGGCGCTGTATGCCAGCTACTCAAGAG 1815
QY 243 CCGAGATTGAGTGAAGTGAATC-----GCAGAGTGAAGCCGAAATCAAGATCAAG 296
DB 1816 GCTGAGGAGAGAAATGAGCGGTGAACCCGAGAGTGAATGCGCCAGCTCAGCCT 1875
QY 297 AGTGAAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 356
DB 1876 GGGCAAGAGAGCAAGTCCGTTCAAAAAATCAAAAAAATCAAAAAAATCAAAAAA 1935
QY 357 A 357

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Db      1936 A 1936
RESULT 24
US-11-266-748A-58369
; Sequence 58369, Application US/11266748A
; Publication No. US2006013463A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcriptome Microarray Technology and
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT APPLICATION NUMBER: US/11/266,748A
; PRIOR FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 48396
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 58369
; LENGTH: 1945
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-58369
Query Match      35.7%; Score 142.6; DB 8; Length 1945;
Best Local Similarity 69.4%; Pred. No. 4.2e-21;
Matches 209; Conservative 1; Mismatches 85; Indels 6; Gaps 1;
QY      63 AGCGATGACACTGCGTGAATGCTTTATCCCAAGACATTCGGGAGGCCAAGTGGCGGA 122
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1636 AGGCGGGCGTGTGCTCATGCTGTGTGATCCCAAGACATTTGGTGGCTGAGGTGACGGA 1695
QY      123 TCACCTGAGTCAAGAGATCGAGACCATCTGCGCAATGGTGAACCCCGCTTTTACT 182
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1696 TCACCTGAGTCAAGAGATTTGAGACCATCTGCTAAGTGTGAACCCCGCTTCT 1755
QY      183 AAAAAATACAAAAATAGCTGGGAGATGTGGCACACACCTGTGATCCCACTACTCAGAG 242
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1756 AAAAATAACAAATATAGCCGGGCGTGGGGGTGGCGCGCTGTGATCCCACTACTCAGAG 1815
QY      243 CCGGAGATTGCACTAGCTGAGATC-----CGAAGTGAAGCCGGAATCAGAGATCAAG 296
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1816 GCTGAGGACGAGAAATGCGTGAACCCCGGAGTCCAGATCGGCGCACTGCACTCAGCT 1875
QY      297 AGTGAGCAGAGTGAACKCCGCTCTCAAAAAACAACAACAAAAAACAACATTAAGAC 356
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1876 GGGCAACAGACAGAGAGTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1935
QY      357 A 357
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1936 A 1936
RESULT 25
US-11-266-748A-28208
; Sequence 28208, Application US/11266748A
; Publication No. US2006013463A1
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; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcriptome Microarray Technology and
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT APPLICATION NUMBER: US/11/266,748A
; PRIOR FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 48396
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 28208
; LENGTH: 1421559
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (414394)..(414394)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (836909)..(836909)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1041105)..(1041105)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1122667)..(1122667)
; OTHER INFORMATION: n is a, c, g, or t
US-11-266-748A-28208
Query Match      35.7%; Score 142.6; DB 8; Length 1421559;
Best Local Similarity 73.0%; Pred. No. 5.8e-22;
Matches 195; Conservative 1; Mismatches 70; Indels 1; Gaps 1;
QY      85 CTGTAATCCCAAGCTTCGGGAGGCCAAGGTGGGAGATCAACCTGAGGTCAAGATGCA 144
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1069903 CTGTAATCCCGCACTTTGGAGGCCAGAGTGGGTGATCACTGAGGCCAGAGATTGCA 1069962
QY      145 GACCATCTGGCCCAACATGTGTAACCCGCTTTACTAAATAAATAAATAATAGCTGG 204
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1069963 GACCAAGCTGGCCCAACATGTGTAACCCGCTTTACTAAATAAATAAATAATAGCTGG 1070022
QY      205 CATGTGGCACACACTGTAGTCCAGCTACTCAGGA-GCCGAGATTGCACTGAGCTGA 263
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1070023 TTGTGTGTGTGTGCTGTGTAGTCCAGCTACCCAGAGAGCTGAAGAGATCGCTTG 1070082
QY      264 GATGCAAGAGTGAACCCGAATTCACAGATCAAGAGTGAAGAGAGAGATTCGCTTGA 323
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1070083 AATCTGAGAGCGGAGGTGCAAGTCTTGAATGAGTGAAGAGATTCGCTTGA 1070142
```


Matches 219; Conservative 1; Mismatches 57; Indels 23; Gaps 2;

QY 81 ATGCCGTAAATCCAGCACTTGGGAGGCGCAAGTGGGGGATTCACCTGAGTCAAGAGA 140
DB 868 ATGCTGTATCCAGCACTTAATGGAGGCGCAGGAGGAGATCTCCAGAGGTCAAGAGT 809
QY 141 TCGAGACCATCTGCGCAACATGATGAAACCCGCTCTTAATAAATAAATAATAC 200
DB 808 TCGAGACCAAGCTGGCGCAATGATGAAACCCGCTCTTAATAAATAAATAATAC 749
QY 201 TGGGCAATGATGCGACACCTGTAAGTCCAGCTACTCAGAA-----GCCGGAATTC 253
DB 748 TGGGCAATGATGCGACACCTGTAATCCAGCTACTGCGGAGCTGAGCAAGAAATTG 689
QY 254 AGTGAGCTGAGATCCAGAGTGAAGCCGAATACAGATCA-----CAGA 297
DB 668 CTTGAATCTGGGAGGCGAGGTTGACAGTGAACAAGATACCTGTAATCCAGCCTG 629
QY 298 GTGACAGAGTGAACKCCGCTCAAAAAACAACAACAAAAAACAATAAGACA 357
DB 628 GGTGACAGAGTGAATCTCAATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 569

RESULT 31
US-11-266-748A-403868/c
; Sequence 403868, Application US/11266748A
; Publication No. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcriptome Microarray Technology and
; TITLE OF INVENTION: Methods of Using the Same
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT APPLICATION NUMBER: US/11/266,748A
; PRIOR FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 403868
; LENGTH: 1000
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-403868

Query Match 35.6%; Score 142.4; DB 8; Length 1000;
Best Local Similarity 69.9%; Pred. No. 4.5e-21;
Matches 207; Conservative 1; Mismatches 82; Indels 6; Gaps 1;

QY 85 CTGTAATCCAGCACTTGGGAGGCGCAAGTGGCGGATCACTGAGTCAAGAGTGA 144
DB 466 CTGTAATCCAGCACTTGGGAGGCGCGAGGCGGATCACTGAGTCAAGAGTGA 407
QY 145 GACCAATCTGCGCAACATGATGAAACCCGCTCTTAATAAATAAATAATAGCTGG 204
DB 406 GACCAATCTGCGCAACATGATGAAACCCGCTCTTAATAAATAAATAATAGCTGG 347
QY 205 CATGATGCGACACCTGTAATCCAGTCACTGAGGAGCGGAAATTGCAATGAGCTGAG 264

DB 346 CGTGATGCGAGCGGCTGTATCCAGCTACTCGGAGGCTGAGCAGAGATGCTTGG 287
QY 265 ATCGAGAGTGAAGCCGAATACAGATCA-----CAGAGTGAAGAGTGAAGACCTGT 318
DB 286 AACCCAGAGGCGGAGATCATGCTATGCACTCAGCCTGGGAGAGATGAAATCTGT 227
QY 319 CTCAAAAACAACAACAAAAAACAATAAAGACATTTGCAATCTGCGCTTC 374
DB 226 CTCAAAAACAACAACAAAAAACAATAAATTCCTACTGTCGCTTATCCCTTC 171

RESULT 32
US-11-266-748A-406117
; Sequence 406117, Application US/11266748A
; Publication No. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcriptome Microarray Technology and
; TITLE OF INVENTION: Methods of Using the Same
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT APPLICATION NUMBER: US/11/266,748A
; PRIOR FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 406117
; LENGTH: 1000
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-406117

Query Match 35.6%; Score 142.4; DB 8; Length 1000;
Best Local Similarity 73.0%; Pred. No. 4.5e-21;
Matches 219; Conservative 1; Mismatches 57; Indels 23; Gaps 2;

QY 81 ATGCTGTAAATCCAGCACTTGGGAGGCGCAAGTGGGGGATTCACCTGAGTCAAGAGA 140
DB 133 ATGCTGTAAATCCAGCACTTAATGGAGGCGCAGGAGGAGATCTCCAGAGGTCAAGAGT 192
QY 141 TCGAGACCATCTGCGCAACATGATGAAACCCGCTCTTAATAAATAAATAATAGCTGG 200
DB 193 TCGAGACCAAGCTGGCGCAATGATGAAACCCGCTCTTAATAAATAAATAATAGCTGG 252
QY 201 TGGGCAATGATGCGACACCTGTAAGTCCAGCTACTCAGAA-----GCCGGAATTC 253
DB 253 TGGGCAATGATGCGACACCTGTAATCCAGCTACTGCGGAGCTGAGCAAGAAATTG 312
QY 254 AGTGAGCTGAGATCCAGAGTGAAGCCGAATACAGATCA-----CAGA 297
DB 313 CTTGAATCTGGGAGGCGAGGTTGACAGTGAACAAGATCACTGTAATCCAGCCTG 372
QY 298 GTGACAGAGTGAACKCCGCTCAAAAAACAACAACAAAAAACAATAAGACA 357
DB 373 GGTGACAGAGTGAATCTCAATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 432

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RESULT 33
US-11-266-748A-474914
; Sequence 474914, Application US/11266748A
; Publication No. US2006013463A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcriptome Microarray Technology and
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT FILING DATE: 2005-11-03
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 474914
; LENGTH: 1000
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-474914

Query Match      35.6%; Score 142.4; DB 8; Length 1000;
Best Local Similarity 69.9%; Pred. No. 4.5e-21;
Matches 207; Conservative 1; Mismatches 82; Indels 6; Gaps 1;

QY 85 CTGATATCCGAGCCTTGGGAGGCGCAAGGTGGGCGGATCACTGAGTCAAGATGCA 144
DB 535 CTGTAATCCGACACTTTGGAGGCGGAGGCGGAGTGGATCACTGAGTCAAGATGCA 594
QY 145 GACCATCTCTGGGCAACATGTTGAAACCCCGTCTTTAATAAATAAATAAATAAATGCTGGG 204
DB 595 GACGAGCTGGGCAACACGTTGAAACCCCATCTCTGTAATAAATAAATAAATAAATGCTGGG 654
QY 205 CATGTGTGGACACACTGTGATGTCCTGAGTCACTCAGAGCGCGGAGTGTGAGTGTAG 264
DB 655 CGTGTGTGGAGGCGCTGTGATGTCCTGAGTCACTCAGAGCGCGGAGTGTGAGTGTAG 714
QY 265 ATCGAGAGTGTGAGCGGAATTCACAGATCA-----CAGAGTGTGAGTGTGAGTGTGAGTGTG 318
DB 715 AACCGAGAGGCGGAATTCATGCTGATGCTGCTGAGTGTGAGTGTGAGTGTGAGTGTG 774
QY 319 CTCAAAAACAACAACAAAAAACAATAAAGCATTAAGACATTTGCTGCGGTTG 374
DB 775 CTCAAAAAAGAAAAAAGAAAAAATCCCTTAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTG 830

RESULT 34
US-11-266-748A-477163/c
; Sequence 477163, Application US/11266748A
; Publication No. US2006013463A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcriptome Microarray Technology and
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT FILING DATE: 2005-11-03
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 477163
; LENGTH: 1000
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-477163

Query Match      35.6%; Score 142.4; DB 8; Length 1000;
Best Local Similarity 73.0%; Pred. No. 4.5e-21;
Matches 219; Conservative 1; Mismatches 57; Indels 23; Gaps 2;
```

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FILE REFERENCE: 55815-0102 (319189)
; CURRENT APPLICATION NUMBER: US/11/266, 748A
; CURRENT FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 477163
; LENGTH: 1000
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-477163

Query Match      35.6%; Score 142.4; DB 8; Length 1000;
Best Local Similarity 73.0%; Pred. No. 4.5e-21;
Matches 219; Conservative 1; Mismatches 57; Indels 23; Gaps 2;

QY 81 ATGCTGTATCCAGCAGCCTTGGGAGGCGCAAGGTGGGCGGATCACTGAGTCAAGATGCA 140
DB 868 ATGCTGTATCCAGCAGCCTTGGGAGGCGCAAGGTGGGCGGATCACTGAGTCAAGATGCA 809
QY 141 TCGAGACCATCTCTGGGCAACATGTTGAAACCCCGTCTTTAATAAATAAATAAATAAATGCTGGG 200
DB 808 TCGAGACCATCTCTGGGCAACATGTTGAAACCCCGTCTTTAATAAATAAATAAATAAATGCTGGG 749
QY 201 TGGGATGTGTGGACACACCTGTGATGTCCTGAGTCACTGAGTCACTGAGTCACTGAGTCACTGAGTCA 253
DB 748 TGGGATGTGTGGACACACCTGTGATGTCCTGAGTCACTGAGTCACTGAGTCACTGAGTCACTGAGTCA 689
QY 254 AGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 297
DB 688 CTGTAATCCGAGCAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 629
QY 298 GTGAGCAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 357
DB 628 GTGAGCAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 569

RESULT 35
US-11-191-644-1
; Sequence 1, Application US/1191644
; Publication No. US20060141529A1
; GENERAL INFORMATION:
; APPLICANT: KOLESKE, ANTHONY JOHN
; APPLICANT: BOYLE, SCOTT NILE
; APPLICANT: SCHWEITZER, BARRY
; APPLICANT: MICHAUD, GREG
; APPLICANT: PREDKI, PAUL
; TITLE OF INVENTION: COMPOSITIONS, KITS AND ASSAYS CONTAINING REAGENTS
; FILE REFERENCE: INV-1007-UT
; CURRENT FILING DATE: 2005-07-27
; PRIOR APPLICATION NUMBER: US/11/191,644
; PRIOR FILING DATE: 2004-07-27
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1
; LENGTH: 157866
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TYPE: DNA
ORGANISM: Homo sapiens
US-11-191-644-1

Query Match 35.6%; Score 142.2; DB 7; Length 157866;
Best Local Similarity 73.6%; Pred. No. 6.3e-21;
Matches 229; Conservative 1; Mismatches 59; Indels 22; Gaps 3;

QY 81 ATGCTGTATATCCAGCACTTGGGAGGCCAAGTGGCGGATCACTGAGTCAAGAGA 140
DB 62586 ATGCTGTATATCCAGCACTTGGGAGGCCAAGTGGCGGATCACTGAGTCAAGAGA 62643
QY 141 TCGAGACCATCTGCGCAACATGTAAGAAACCGCTTACTTAATAAATAATCAAAATAGC 200
DB 62644 TTGAGACCATCTGCGCAACATGTAAGAAACCGCTTACTTAATAAATAATCAAAATAGC 62703
QY 201 TGGGATGATGGGACACACCTGTAGTCCAGCTACTCAGCA-----GCCGGAATGAC 253
DB 62704 TGTGATGATGGGACACACCTGTAGTCCAGCTACTCAGCA-----GCCGGAATGAC 62763
QY 254 AGTGAAGTGAATGCCAGATGAGCCGAATACAGAT-----CACAGATG 300
DB 62764 CTGTAACCCAGAGGCAAGGTTGCAGTAGCTGAGATTGCAACCACTGCACTCCAGACTG 62823
QY 301 AGCAGATGAGACKCCGTCTCAAAAACAACAACAAAAAACAACCAATAGACATTG 360
DB 62824 CTGACAGTGAAGCTCGCTCTCAAAAACAACAACAAAAACAACAACAGAGAG 62883
QY 361 TCCATCTGCGG 371
DB 62884 ACTGCTTCTG 62894

RESULT 36
US-11-293-697-23/c
Sequence 23, Application US/11293697
Publication No. US20060105376A1

GENERAL INFORMATION:
APPLICANT: HELIX RESEARCH INSTITUTE
TITLE OF INVENTION: Novel full length cDNA
FILE REFERENCE: H1-A0106
CURRENT APPLICATION NUMBER: US/11/293,697
CURRENT FILING DATE: 2005-12-05
PRIOR APPLICATION NUMBER: US/10/108,260
PRIOR FILING DATE: 2002-03-28
NUMBER OF SEQ ID NOS: 5458
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 23
LENGTH: 2800
TYPE: DNA
ORGANISM: Homo sapiens
US-11-293-697-23

Query Match 35.5%; Score 142; DB 8; Length 2800;
Best Local Similarity 72.3%; Pred. No. 5.7e-21;
Matches 198; Conservative 1; Mismatches 71; Indels 4; Gaps 1;

QY 76 GCTGAATGCTGTATATCCAGCACTTGGGAGGCCAAGTGGCGGATCACTGAGTCA 135
DB 847 GTTTCACGCTGTATATCCAGCACTTGGGAGGCCAAGTGGCGGATCACTGAGTCA 788
QY 136 AGAATCGAGACCATCTGCGCAACATGTAAGAAACCGCTTACTTAATAAATAATCAAAA 195
DB 787 GGAATTCGAGACCATCTGCGCAACATGTAAGAAACCGCTTACTTAATAAATAATCAAAA 728
QY 196 ATAGCTGGGATGATGAGACACCTGTAGTCCAGCTACTCAGAGCCGAGATGAG 255
DB 727 TTAGCTGGGATGATGAGACACCTGTAGTCCAGCTACTCAGAGCCGAGATGAG 668
QY 256 TGAAGTGAATGAGAGTGAAGCCGAATCAAGATCAAGATGAGAGAGAGAGC 315
DB 667 AATCACTGAACCCGGAGGCGGAGGCTC-----CAGTCTAGTCAAAAAAAGCAAGACTC 612

QY 316 CGTCTCAAAAACAACAACAAAAAACAACAAAAACC 349
DB 611 AGTCTCAAAAACAACAACGAGCCAAACAAAAACC 578

RESULT 37
US-11-293-697-604/c

Sequence 604, Application US/11293697
Publication No. US20060105376A1
GENERAL INFORMATION:
APPLICANT: HELIX RESEARCH INSTITUTE
TITLE OF INVENTION: Novel full length cDNA
FILE REFERENCE: H1-A0106
CURRENT APPLICATION NUMBER: US/11/293,697
CURRENT FILING DATE: 2005-12-05
PRIOR APPLICATION NUMBER: US/10/108,260
PRIOR FILING DATE: 2002-03-28
NUMBER OF SEQ ID NOS: 5458
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 604
LENGTH: 3252
TYPE: DNA
ORGANISM: Homo sapiens
US-11-293-697-604

Query Match 35.5%; Score 142; DB 8; Length 3252;
Best Local Similarity 77.5%; Pred. No. 5.7e-21;
Matches 172; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY 81 ATGCTGTATATCCAGCACTTGGGAGGCCAAGTGGCGGATCACTGAGTCAAGAGA 140
DB 2938 AGCTGTATATCCAGCACTTGGGAGGCCAAGTGGCGGATCACTGAGTCAAGAGA 2879
QY 141 TCGAGACCATCTGCGCAACATGTAAGAAACCGCTTACTTAATAAATAATCAAAATAGC 200
DB 2878 TTGAGACCATCTGCGCAACATGTAAGAAACCGCTTACTTAATAAATAATCAAAATAGC 2819
QY 201 TGGGATGATGGGACACACCTGTAGTCCAGCTACTCAGAGCCGAGATGAGAGC 260
DB 2818 CAGGCTGTGTGTAGTCCGTGTATCCAGCTACTCAGAGGCTGAGGTTGCACTGAGC 2759
QY 261 TGAATGCAAGATGAGCCGAATCAAGATCAAGATGAG 302
DB 2758 TGAATGCAAGATGAGCCCTCCAGCTGGGCGAGAGATGAG 2717

RESULT 38
US-11-266-748A-202571

Sequence 202571, Application US/11266748A
Publication No. US20060134663A1
GENERAL INFORMATION:
APPLICANT: Harkin, Paul
APPLICANT: Mulligan, Patrick
TITLE OF INVENTION: Transcription Microarray Technology and
TITLE OF INVENTION: Methods of Using the Same
FILE REFERENCE: 55815-0102 (319189)
CURRENT APPLICATION NUMBER: US/11/266,748A
CURRENT FILING DATE: 2005-11-03
PRIOR APPLICATION NUMBER: EP 04105479.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105482.6
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105483.4
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105507.0
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105485.9
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105484.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: US 60/662,276
PRIOR FILING DATE: 2005-03-14

PRIOR APPLICATION NUMBER: US 60/700,293
PRIOR FILING DATE: 2005-07-18
NUMBER OF SEQ ID NOS: 48396
SOFTWARE: PatentIn version 3.3
SEQ ID NO 202571
LENGTH: 1000
TYPE: DNA
ORGANISM: Homo Sapiens
US-11-266-748A-202571

Query Match 35.4%; Score 141.6; DB 8; Length 1000;
Best Local Similarity 74.0%; Pred. No. 6.5e-21;
Matches 199; Conservative 1; Mismatches 60; Indels 7; Gaps 1;

QY 84 CCTGTAATCCAGCACTTGGGAGGCCAAGTGGCGGATCACTGAGCTCAAGATCG 143
DB 383 CTTGTAATCCAGCACTTGGGAGGCCAAGTGGCGGATCACTGAGCTCAAGATCG 442
QY 144 AGACATCTCGGCAACATGGTGAACCCCGCTTTACTAAATAACAAAATAGCTCG 203
DB 443 AGACATCTCGGCAACATGGTGAACCCCGCTTTACTAAATAAGAAAATTAAGCCG 502
QY 204 GCATGCTGGCACACCTGTAGTCCAGCTACTCAGAG-----CCGAGATTGAGT 256
DB 503 GCATGCTGGCACATGTTTGTATCCAGCTACTTGGGAGGCTGAGGAGGAGATCACTT 562
QY 257 GAGCTGAGATCGCAGAGTGAAGCCGAATCACAATCAGAGTGAAGAGACCC 316
DB 563 GAACCTGGGAGGTGAAGTTGCAAGTGAAGCCAGCTGAGTGAAGAGTGAAGTCTT 622
QY 317 GTCTCAAAAACAACAACAAAAA 338
DB 623 GTCTCAAAAACAACAAAAA 644

RESULT 39
US-11-266-748A-23004/C
Sequence 23004, Application US/11266748A
Publication No. US2006013463A1
GENERAL INFORMATION:
APPLICANT: Harkin, Paul
APPLICANT: Mulligan, Karl
TITLE OF INVENTION: Transcriptome Microarray Technology and
FILE REFERENCE: 55815-0102 (319189)
CURRENT APPLICATION NUMBER: US/11/266,748A
PRIOR FILING DATE: 2005-11-03
PRIOR APPLICATION NUMBER: EP 04105479.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105482.6
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105483.4
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105507.0
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105485.9
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105484.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: US 60/662,276
PRIOR FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/700,293
PRIOR FILING DATE: 2005-07-18
NUMBER OF SEQ ID NOS: 48396
SOFTWARE: PatentIn version 3.3
SEQ ID NO 23004
LENGTH: 216387
TYPE: DNA
ORGANISM: Homo Sapiens
US-11-266-748A-23004

Query Match 35.4%; Score 141.6; DB 8; Length 216387;

Best Local Similarity 69.1%; Pred. No. 8.5e-21;
Matches 192; Conservative 1; Mismatches 85; Indels 0; Gaps 0;

QY 66 CATGACATGCTGTAATGCTGTAATCCAGCACTTGGGAGGCCAAGTGGCGGATCA 125
DB 87903 CAAGTAACAGCGCGCTGTAATCCAGCACTTGGGAGGCCAAGTGGCGGATCA 87844
QY 126 CTTGAGGTCAAGATGAGACCATCTGGCCAAAGTGAACCCCGTCTTACTATAA 185
DB 87843 CTTGAGGTCAAGATGAGACCATCTGGCCAAAGTGAACCCCGTCTTACTATAA 87784
QY 186 AATACAAAATAGCTGGGAGGTGGGACACACCTGTACTCCAGTACTCAGAGCCG 245
DB 87783 AATATTAATTAATGCTGGGAGGTGGGACACACCTGTACTCCAGTACTCAGAGCCG 87724
QY 246 GAGATTGCACTGAGTGAATCCGAGAGTGAAGCCGAATACAGATACAGATGAGCAG 305
DB 87723 ACCGACAGAGATATCACTGTAACCTGGGTGGAGGCTGACATGAGAGATCTGCCA 87664
QY 306 AGTGAGACKCCGCTCAAAAACAACAACAAAAA 343
DB 87663 CTATGGTGAACAAAGAGCTCAAAAACAAAAA 87626

RESULT 40
US-11-266-748A-201568
Sequence 201568, Application US/11266748A
Publication No. US2006013463A1
GENERAL INFORMATION:
APPLICANT: Harkin, Paul
APPLICANT: Mulligan, Karl
TITLE OF INVENTION: Transcriptome Microarray Technology and
FILE REFERENCE: 55815-0102 (319189)
CURRENT APPLICATION NUMBER: US/11/266,748A
PRIOR FILING DATE: 2005-11-03
PRIOR APPLICATION NUMBER: EP 04105479.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105482.6
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105483.4
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105507.0
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105485.9
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105484.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: US 60/662,276
PRIOR FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/700,293
PRIOR FILING DATE: 2005-07-18
NUMBER OF SEQ ID NOS: 48396
SOFTWARE: PatentIn version 3.3
SEQ ID NO 201568
LENGTH: 632
TYPE: DNA
ORGANISM: Homo Sapiens
US-11-266-748A-201568

Query Match 35.4%; Score 141.4; DB 8; Length 632;
Best Local Similarity 77.1%; Pred. No. 7e-21;
Matches 172; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 26 CATGGAACCCAAATATTAATTAAGACATTTGTCAGGCCAGCATGACCTGGCTGAATGCC 85
DB 311 CAGGGAGGAGAACTATGTGCAAAAAGTACAGGCCAGAGCGCGGATGCTCAGGCC 370
QY 86 TGTATCCAGCACTTGGGAGGCCAAGTGGCGGATCACTGAGGTCAAGAGATGAG 145
DB 371 TATATCCAGCACTTGGGAGGCCAAGTGGCGGATCACTGAGGTCAAGAGATGAG 430

QY 146 ACCATCTGGCCCAACATGGTGAACCCCTCTTACTAAATAATAGCTGGGC 205
DB 431 ACCAGCTGGCCCAACATGGTGAACCCCTCTTACTAAATAATAGCTGGGC 490
QY 206 ATGGGCGACACACCTGTATGTCCTCACTAAGAGCCGAG 248
DB 491 ATGATGGCTCGGCTGTAGTCTTACTAAGAGGCTGAG 533

RESULT 41

US-11-266-748A-59943/C
Sequence 59943, Application US/11266748A
Publication No. US20060134663A1
GENERAL INFORMATION:
APPLICANT: Harlin, Paul
APPLICANT: Johnston, Patrick
TITLE OF INVENTION: Transcription Microarray Technology and
FILE REFERENCE: 55815-0102 (319189)
CURRENT APPLICATION NUMBER: US/11/266,748A
PRIOR FILING DATE: 2005-11-03
PRIOR APPLICATION NUMBER: EP 04105479.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105482.6
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105483.4
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105507.0
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105485.9
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105484.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: US 60/662,276
PRIOR FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/700,293
PRIOR FILING DATE: 2005-07-18
NUMBER OF SEQ ID NOS: 483996
SOFTWARE: Patent version 3.3
SEQ ID NO 59943
LENGTH: 2445
TYPE: DNA
ORGANISM: Homo Sapiens
US-11-266-748A-59943

Query Match 35.4%; Score 141.4; DB 8; Length 2445;
Best Local Similarity 88.0%; Pred. No. 7.5e-21;
Matches 154; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 81 ATGCTGTATCCAGCACTTCGGAGGCCCAAGTGGCGGATCACTGAGGTCAAGA 140
DB 344 AGGCTGTATCCAGCACTTCGGAGGCCCAAGTGGCGGATCACTGAGGTCAAGA 285
QY 141 TCGAGACCATCTGGCCCAACATGGTGAACCCCTCTTACTAAATAATAGCTGC 200
DB 284 TCGAGACCATCTGGCCCAACATGGTGAACCCCTCTTACTAAATAATAGCTGC 225
QY 201 TGGGCGTGTGGCAACACCTGTATGTCCTCACTAAGAGCCGAGATTGAG 255
DB 224 CAGGCGTGTGGCGGACCTGTATCCAGTACCCAGAGGCTGAGGCGAGAG 170

RESULT 42

US-10-517-441-32/C
Sequence 32, Application US/10517441
Publication No. US20060121467A1
GENERAL INFORMATION:
APPLICANT: FOEKENS, John
APPLICANT: HARBECK, Nadia
APPLICANT: KOENIG, Thomas
APPLICANT: MAIER, Sabine
APPLICANT: MARTENS, John

APPLICANT: MODEL, Fabian
APPLICANT: NIMMERICH, Inko
APPLICANT: RUJAN, Tamara
APPLICANT: SCHMITT, Armin
APPLICANT: SCHMITT, Manfred
APPLICANT: LOOK, Maxime P.
APPLICANT: MARX, Almut
APPLICANT: HOEFER, Heinz
TITLE OF INVENTION: Method and nucleic acids for the improved treatment of breast cel
FILE REFERENCE: 47675-93
CURRENT APPLICATION NUMBER: US/10/517,441
PRIOR FILING DATE: 2004-12-11
PRIOR APPLICATION NUMBER: PCT/EP2003/010881
PRIOR FILING DATE: 2003-10-01
PRIOR APPLICATION NUMBER: DE 10317955.0
PRIOR FILING DATE: 2003-04-17
PRIOR APPLICATION NUMBER: DE 10300096.8
PRIOR FILING DATE: 2003-01-07
PRIOR APPLICATION NUMBER: DE 10245779.4
PRIOR FILING DATE: 2002-10-01
NUMBER OF SEQ ID NOS: 2147
SEQ ID NO 32
LENGTH: 6521
TYPE: DNA
ORGANISM: Homo Sapiens
US-10-517-441-32

Query Match 35.4%; Score 141.4; DB 6; Length 6521;
Best Local Similarity 88.0%; Pred. No. 7.9e-21;
Matches 154; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 81 ATGCTGTATCCAGCACTTCGGAGGCCCAAGTGGCGGATCACTGAGGTCAAGA 140
DB 2279 ATGCTGTATCCAGCACTTCGGAGGCCCAAGTGGCGGATCACTGAGGTCAAGA 2220
QY 141 TCGAGACCATCTGGCCCAACATGGTGAACCCCTCTTACTAAATAATAGCTGC 200
DB 2219 TCGAGACCATCTGGCCCAACATGGTGAACCCCTCTTACTAAATAATAGCTGC 2160
QY 201 TGGGCGTGTGGCAACACCTGTATGTCCTCACTAAGAGCCGAGATTGAG 255
DB 2159 TGGGCGTGTGGCGGACCTGTATCCAGTACCCAGAGGCTGAGGCGAGAG 2105

RESULT 43

US-11-266-748A-60244
Sequence 60244, Application US/11266748A
Publication No. US20060134663A1

GENERAL INFORMATION:
APPLICANT: Harlin, Paul
APPLICANT: Johnston, Patrick
TITLE OF INVENTION: Transcription Microarray Technology and
FILE REFERENCE: 55815-0102 (319189)
CURRENT APPLICATION NUMBER: US/11/266,748A
PRIOR FILING DATE: 2005-11-03
PRIOR APPLICATION NUMBER: EP 04105479.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105482.6
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105483.4
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105507.0
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105485.9
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: EP 04105484.2
PRIOR FILING DATE: 2004-11-03
PRIOR APPLICATION NUMBER: US 60/662,276
PRIOR FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/700,293


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; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 60244
; LENGTH: 86654
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-60244

Query Match      35.4%; Score 141.4; DB 8; Length 86654;
Best Local Similarity 72.3%; Pred. No. 9e-21;
Matches 206; Conservative 1; Mismatches 57; Indels 21; Gaps 1;

QY 84 CCGTAAATCCAGACCTTCGGAGAGCCCAAGGTGGGCGGATCACCTGAGGTGAAGATGCG 143
DB 22962 CCTTAATCCAGACCTTCGGAGAGCCCAAGGTGGGCGGATCACCTGAGGTGAAGATGCG 23021
QY 144 AGACCATCTGGCCCAACATGTTGAAACCCCGTCTTTACTAATAAATACAAAAATAGCTGG 203
DB 23022 AGACCAAGCTGGCCCAACATGTTGAAACCCCGTCTTTACTAATAAATACAAAAATAGCTGG 23081
QY 204 GCATGTGGGACACACCTGTATGTCCTCCAGCTACTCAGAGCCGAGATTGCACTGAGCTGA 263
DB 23082 GCATGATGGCACACACCTGTATGTCCTCCAGCTACTTGGGAGGCTGAGGAGAAATCACTT 23141
QY 264 GATGCGAGAGTGAAGCCCAATCAGAGATCAGAGTGAAGC----- 303
DB 23142 GAACCTGGAGGTGAGAGTTGCACTGAGCCCAAGATCGACACACTGCACTCCAGCTGGGC 23201
QY 304 -AGAAGTGAAGACCCGCTCAAAAAACAACAAAAAACAATAA 347
DB 23202 AAGAGTGAAGACTCCGCTCAAAAAAAGAAAAAACAATAA 23246

RESULT 44
US-11-266-748A-23291/c
; Sequence 23291, Application US/11266748A
; Publication No. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcriptome Microarray Technology and
; TITLE OF INVENTION: Methods of Using the Same
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT APPLICATION NUMBER: US/11/266,748A
; CURRENT FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 23291
; LENGTH: 113853
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-23291

Query Match      35.4%; Score 141.4; DB 8; Length 113853;
Best Local Similarity 88.0%; Pred. No. 9.1e-21;
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Matches 154; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 81 ATGCTTAATCCAGACCTTCGGAGAGCCCAAGGTGGGCGGATCACCTGAGGTGAAGATGCG 140
DB 108547 ATGCTTAATCCAGACCTTCGGAGAGCCCAAGGTGGGCGGATCACCTGAGGTGAAGATGCG 108488
QY 141 TCGAGACCATCTGGCCCAACATGTTGAAACCCCGTCTTTACTAATAAATACAAAAATAGC 200
DB 108487 TCGAGACCATCTGGCCCAACATGTTGAAACCCCGTCTTTACTAATAAATACAAAAATAGC 108428
QY 201 TGGGCATGTGGGACACACCTGTATGTCCTCCAGCTACTCAGAGCCGAGATTGTCAG 255
DB 108427 TGGGCATGTGGGACACACCTGTATGTCCTCCAGCTACTCAGAGCCGAGATTGTCAG 108373

RESULT 45
US-11-266-748A-58517/c
; Sequence 58517, Application US/11266748A
; Publication No. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcriptome Microarray Technology and
; TITLE OF INVENTION: Methods of Using the Same
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT APPLICATION NUMBER: US/11/266,748A
; CURRENT FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 58517
; LENGTH: 154394
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-58517

Query Match      35.4%; Score 141.4; DB 8; Length 154394;
Best Local Similarity 77.1%; Pred. No. 9.2e-21;
Matches 172; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 81 ATGCTTAATCCAGACCTTCGGAGAGCCCAAGGTGGGCGGATCACCTGAGGTGAAGATGCG 140
DB 139360 ACGCTTAATCCAGACCTTCGGAGAGCCCAAGGTGGGCGGATCACCTGAGGTGAAGATGCG 139301
QY 141 TCGAGACCATCTGGCCCAACATGTTGAAACCCCGTCTTTACTAATAAATACAAAAATAGC 200
DB 139300 TCGAGACCATCTGGCCCAACATGTTGAAACCCCGTCTTTACTAATAAATACAAAAATAGC 139241
QY 201 TGGGCATGTGGGACACACCTGTATGTCCTCCAGCTACTCAGAGCCGAGATTGTCAGT 260
DB 139240 TGGGCATGTGGGACACACCTGTATGTCCTCCAGCTACTCAGAGCCGAGATTGTCAGT 139181
QY 261 TGAATGCGAGAGTGAAGCCCAATCAGAGATCAGAGTGAAGC 303
DB 139180 CTGAAATGGAAGTGAAGTTCAGATGAGTGAAGTTGTC 139138
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RESULT 46
US-11-266-748A-22662/C
; Sequence 22662, Application US/11266748A
; Publication No. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcription Microarray Technology and
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22662
; LENGTH: 164429
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-22662

Query Match      35.4%; Score 141.4; DB 8; Length 164429;
Best Local Similarity 77.1%; Pred. No. 9.3e-21;
Matches 172; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 81 ATGCGTGAATCCGAGCACTTCGGAGGCGCAAGTGGCGGATCACTGAGTCAAGAGA 140
DB 27612 ATGCGTGAATCCGAGCACTTCGGAGGCGTGAAGGCGGCAATCACTGAGTCAAGAGT 27553
QY 141 TCGAGACCATCTGCGCCCAATGTGTGAACCCCGCTTTACTAAATAATCAAAAAATAGC 200
DB 27552 TCGAGACCATCTGCGCCCAATGTGTGAACCCCGCTTTACTAAATAATCAAAAAATAGC 27493
QY 201 TGGGCAATGTGGGCAACACCTGTGTAGTCCGAGTACTCAAGAGCCGAGAGTTGCAGTGAGC 260
DB 27492 CGGGCAATGTGGGCAACACCTGTGTATCCGAGTACTCAAGAGGCTTAAGGCGAGAGATTA 27433
QY 261 TGAGATCGAGAGTGAGCGGCAATCAACAGATCAAGAGTGAAGC 303
DB 27432 CTGAACCCAGAGGCGAGAGGTTGCAAGTGAAGCAAGATCTGTC 27390

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; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 483996
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24937
; LENGTH: 86215
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-24937

Query Match      35.3%; Score 141.2; DB 8; Length 86215;
Best Local Similarity 67.9%; Pred. No. 9.9e-21;
Matches 197; Conservative 0; Mismatches 93; Indels 0; Gaps 0;

QY 14 CATGTCTGGGCGCATGGGAACCAATATTATTAAGACATTGTCAAGCCGAGTGAAC 73
DB 67383 CATTTATTGTTCTTTTAAATGAACAAATTTAGAGAAAGTTATTCAGGCCAGCAT 67324
QY 74 TGGCTGAATGCTGTATCCGAGCACTTCGGAGGCGCAAGTGGCGGATCACTGAGAGT 133
DB 67323 GGTATCAATGCTGTATCCGAGCACTTTAGAGGCTGAGGCGGATGATCACTGAGAGT 67284
QY 134 CAAGAGATCGAGACCATCTGCGCAACATGCTGAACCCCGCTTTACTAAATAATCAAA 193
DB 67263 CAGAGATTCGAGACCATCTGCGCAACATGCTGAACCCCGCTTTACTAAATAATCAAA 67204
QY 194 AATAGCTGGGCGATGTGGGCAACACCTGTGTAGTCCGAGTACTCAAGAGCCGAGAGTTGC 253
DB 67203 AATTAGCGGCGGATGTGTGTATGCTGTGTAGTCCGAGTACTCAAGAGGCTGAGAGT 67144
QY 254 AGTAGCTGAGATGCGAGAGTGAAGCCGAATCAAGATCAAGAGTGAAGC 303
DB 67143 ACAATCACTGAACCCAGAGGCGAGAGTTCAGTGAAGTGTGTC 67094

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RESULT 47
US-11-266-748A-24937/C
; Sequence 24937, Application US/11266748A
; Publication No. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcription Microarray Technology and
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: US/11/266,748A
; PRIOR FILING DATE: 2004-11-03

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RESULT 48
US-11-266-748A-119261
; Sequence 119261, Application US/11266748A
; Publication No. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Harkin, Paul
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcription Microarray Technology and
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT FILING DATE: 2005-11-03
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276

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; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 48396
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 119261
; LENGTH: 1000
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-119261

Query Match      35.3%; Score 141; DB 8; Length 1000;
Best Local Similarity 68.8%; Pred. No. 8.7e-21;
Matches 229; Conservative 1; Mismatches 86; Indels 17; Gaps 2;

QY 81 ATGCTGTAAATCCAGACCTTCGGAGGCGCAAGGTGGCGGATCACTGAGTCAAGAGA 140
DB 200 ACGCTGTAAATCCAGACCTTCGGAGGCGCGCTGGAGGAGTGTGCTGAGGTCAAGAGT 259
QY 141 TCGAGACCATCTGCGCAACATGTGGAAACCCCGCTTACTAAATAACAAATAATAGC 200
DB 260 TCGAGACCAAGCTCTGTAAACATGTGAAACCCCGCTTACTAAATAACAAATAATAGC 319
QY 201 TGGGCAATGTGGACACACCTGTAGTCCAGACTACTAGCA-GCCGAGATTGCAATGAG 259
DB 320 TGGGCGTGTGGACACACCTGTAGTCCAGACTCTCGGAGGCGAGGAATCGCTTGA 379
QY 260 CTGAGATCGCAGAGTGAAGCCGAATACAGATCACA-----GAGTGAGC 303
DB 380 CCGGAGGTAGAGGTGCAATGAGCCGAGATCGCACTACCTCCAGCTGGGCGGAC 439
QY 304 AGAGTGAGACKCCGCTCAAAAAACAACAACAAAAAACATTAAGACATTGTCC 363
DB 440 AGAGCAAGACTCTCTTCTCAAAAAAAAAAAAAAAAAAGGCGGCGCGTGGCT 499
QY 364 ATCTGCGGTTCCAGACTATTGACGAGACCAA 396
DB 500 CACTCTGTAAATCCAGACCTCTGAAAGCGCA 532

RESULT 49
US-11-266-748A-161425/c
; Sequence 161425, Application US/11266748A
; Publication No. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcriptome Microarray Technology and
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT FILING DATE: US/11/266,748A
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 48396
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 161425
; LENGTH: 1000
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; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-161425

Query Match      35.3%; Score 141; DB 8; Length 1000;
Best Local Similarity 68.8%; Pred. No. 8.7e-21;
Matches 229; Conservative 1; Mismatches 86; Indels 17; Gaps 2;

QY 81 ATGCTGTAAATCCAGACCTTCGGAGGCGCAAGGTGGCGGATCACTGAGTCAAGAGA 140
DB 801 ACGCTGTAAATCCAGACCTTCGGAGGCGCGCTGGAGGAGTGTGCTGAGGTCAAGAGT 742
QY 141 TCGAGACCATCTGCGCAACATGTGGAAACCCCGCTTACTAAATAACAAATAATAGC 200
DB 741 TCGAGACCAAGCTCTGTAAACATGTGAAACCCCGCTTCACTAAATAACAAATAATAGC 682
QY 201 TGGGCAATGTGGACACACCTGTAGTCCAGACTACTAGCA-GCCGAGATTGCAATGAG 259
DB 681 TGGGCGTGTGGACACACCTGTAGTCCAGACTCTCGGAGGCGAGGAATCGCTTGA 622
QY 260 CTGAGATCGCAGAGTGAAGCCGAATACAGATCACA-----GAGTGAGC 303
DB 621 CCGGAGGTAGAGGTGCAATGAGCCGAGATCGCACTACCTCCAGCTGGGCGGAC 562
QY 304 AGAGTGAGACKCCGCTCAAAAAACAACAACAAAAAACATTAAGACATTGTCC 363
DB 561 AGAGCAAGACTCTCTTCTCAAAAAAAAAAAAAAAAAAGGCGGCGCGTGGCT 502
QY 364 ATCTGCGGTTCCAGACTATTGACGAGACCAA 396
DB 501 CACTCTGTAAATCCAGACCTCTGAAAGCGCA 469

RESULT 50
US-11-266-748A-407602
; Sequence 407602, Application US/11266748A
; Publication No. US20060134663A1
; GENERAL INFORMATION:
; APPLICANT: Johnston, Patrick
; APPLICANT: Mulligan, Karl
; TITLE OF INVENTION: Transcriptome Microarray Technology and
; FILE REFERENCE: 55815-0102 (319189)
; CURRENT FILING DATE: US/11/266,748A
; PRIOR APPLICATION NUMBER: EP 04105479.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105482.6
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105483.4
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105507.0
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105485.9
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: EP 04105484.2
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US 60/662,276
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/700,293
; PRIOR FILING DATE: 2005-07-18
; NUMBER OF SEQ ID NOS: 48396
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 407602
; LENGTH: 1000
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-266-748A-407602

Query Match      35.3%; Score 141; DB 8; Length 1000;
Best Local Similarity 68.8%; Pred. No. 8.7e-21;
Matches 229; Conservative 1; Mismatches 86; Indels 17; Gaps 2;
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